

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-38347

and hereby designates

NAME: Mid-Continent Oil and Gas Reserves, Inc.

ADDRESS: 12700 Park Central Place, Suite 1404

Dallas, Texas 75251

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 32 South - Range 3 East, S.L.M.

Section 29: . All
Garfield County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

Atlantic Richfield Company
By: L.J. Massey
Attorney-in-Fact

L. J. Massey

(Signature of lessee)

P.O. Box 5540
Denver, CO. 80217

July 29, 1983

(Date)

(Address)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Mid-Continent Oil & Gas Reserves, Inc.

3. ADDRESS OF OPERATOR

12700 Park Central Place, Suite 1404, Dallas, Texas 75251

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

720' FSL & 2410' FWL (SE SW)

At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

34.9 miles north of Escalante, Utah

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

720'

(Also to nearest drilg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

8353' GR

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
20"	13-3/8" new or used	54.5#	120'
12-1/4"	9-5/8" new or used	36#K-55 ST&C	1100'
7-7/8"	5-1/2" new or used	15.5#K-55 LT&C	3700'

1. Drill 20" hole and set 120' interval of conductor pipe and cement.
2. Drill 12-1/4" hole and set 9-5/8" surface casing to 1100' with cement.
3. Log B.O.P. checks in daily drill reports and drill 7-7/8" hole.
4. Run tests if warranted and run 5-1/2" casing if productive.
5. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The 10-Point Compliance Program
- "C" The Blowout Preventer Diagram
- "D" The Multi-Point Requirements of A.P.D.
- "E" & "E1" Access Road Maps to Location
- "F" Radius Map of Field
- "G" & "G1" Drill Pad Layout, Production Facilities & Cut-
- "H" Drill Rig Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production, proposed production, and proposed completion. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program if any.

24.

SIGNED

John D. Slawter

TITLE

President

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH: DIVISION OF
OIL, GAS AND MINING
DATE: 7/29/83
BY: [Signature]

*See Instructions On Reverse Side

Mr. Orlyn Terry
2460 West 26th Avenue
Suite 470-C
Denver, Colorado 80211

RE: Filing NTL-6 and A.P.D. Form 9-331C
Mid-Continent Oil & Gas Reserves, Inc.
#1 Charger
SE SW Sec. 29, T32S-R3E
720' FSL & 2410' FWL
Garfield County, Utah

Dear Mr. Terry:

This is to confirm our understanding with you that Orlyn Terry is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports, for the above-referenced project.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

TERRY'S responsibilities do not include construction of location or supervision of drilling, completion or rehabilitation operations.

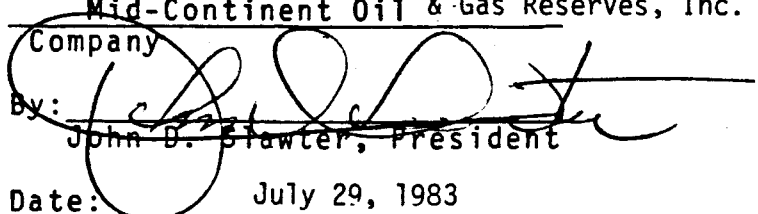
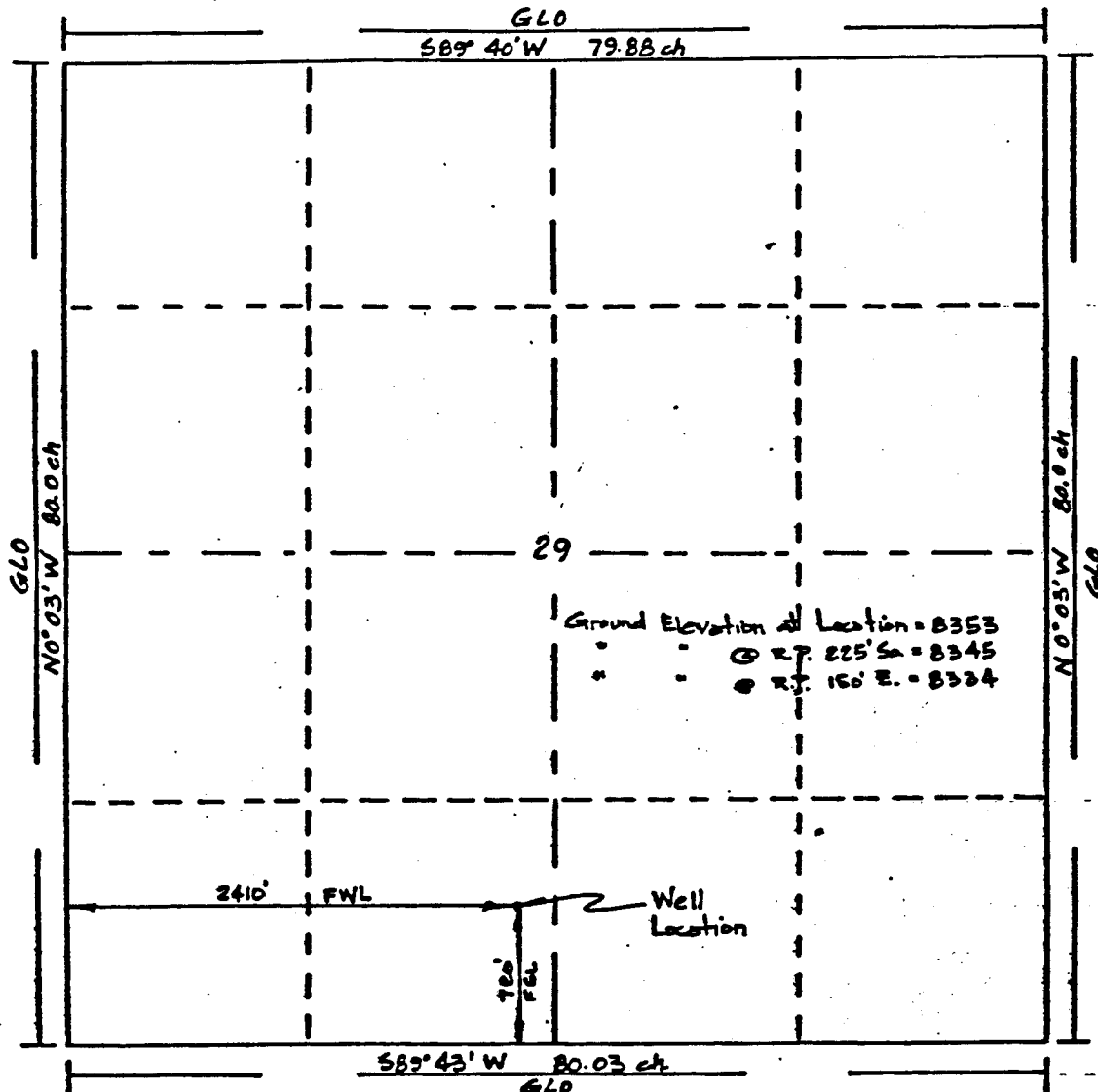
Mid-Continent Oil & Gas Reserves, Inc.
Company
By: 
John B. Blawie, President
Date: July 29, 1983



EXHIBIT "A"

Location & Elevation Plat

R. 3 E.



Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from ORLYN TERRY
 for Mid-Continent Oil & Gas Reserves, Inc.
 determined the location of #1 Charger
 to be 720' FSL & 2410' FWL of Section 29 Township 32 South
 Range 3 East of the SALT LAKE Meridian
 GARFIELD County, UTAH

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of

Date: APRIL 23, 1982

T. Nelson
 Licensed Land Surveyor No. 2711
 State of UTAH

EXHIBIT "B"
TEN-POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
Mid-Continent Oil & Gas Reserves, Inc.
#1 Charger
SE SW Sec. 29 T32S R3E
720' FSL & 2410' FWL
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Navajo Sandstone.

2. Estimated Tops of Important Geologic Markers

Chinle	900'
Shinarump	1340'
Moenkopi	1500'
Timpowcap	2250'
Kaibab	2360'
Toroweap-White Rim	2530'
Organ Rock	3115'
Cedar Mesa	3580'
Total Depth	3700'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Cedar Mesa	3700'	Gas ✓
Cedar Mesa	3700'	Water

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE & JOINT</u>	<u>NEW OR USED</u>
20"	0-120'	120'	13-3/8"	54.5#	Either
12 1/4"	0-1100'	1100'	9 5/8"	36# K-55 ST&C	Either
7 7/8"	0-3700'	3700'	5 1/2"	15.5# K-55 LT&C	Either

Cement Program -

Conductor Pipe: Cement to surface with ready mixed concrete.

Surface Casing: Cement with 250 sacks, Class H, 3% CaCl₂

Production Casing: Cement with 250 sacks, Class H, 3% CaCl₂

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include a kelly cock, floor safety valve, drill string BOP, and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

This well will be drilled with air mist from surface to total depth. Exhaust will be muffled. Other materials will be on site to handle any anticipated downhole problems as well as possible spills of fluid on the surface. If water flow is encountered, the well will be drilled with mud.

<u>DEPTH</u>	<u>TYPE</u>	<u>WEIGHT #/gal.</u>	<u>VISCOSITY-sec./qt.</u>	<u>FLUID LOSS cc</u>
0-3700'	Gel-chem	9	35 - 40	N/C

7. The Auxiliary Equipment to be Used

(a) A kelly cock will be kept in the string.

(b) A float will not be used at the bit.

(c) A gas detecting device will be monitoring the system.

(d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

(a) Drill Stem Tests will be determined during drilling.

(b) The logging program will consist of the following:

Induction
Density

Surface - TD
Surface - TD

Other logs will be determined at site to best evaluate any shows.

(c) No coring is anticipated.

(d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted for approval.

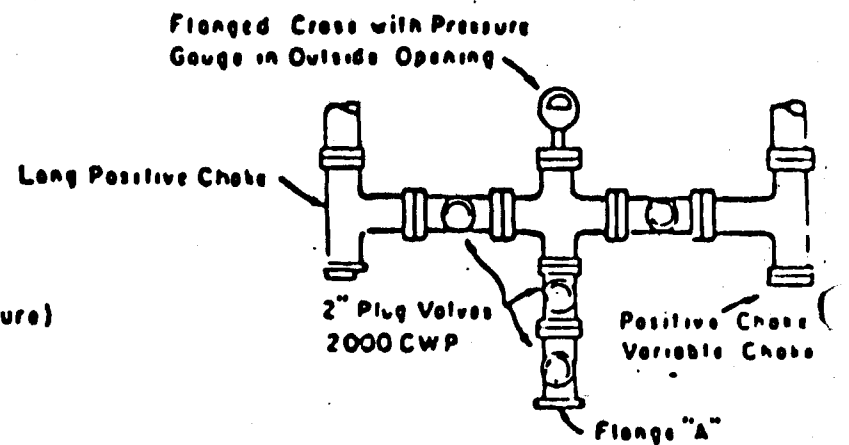
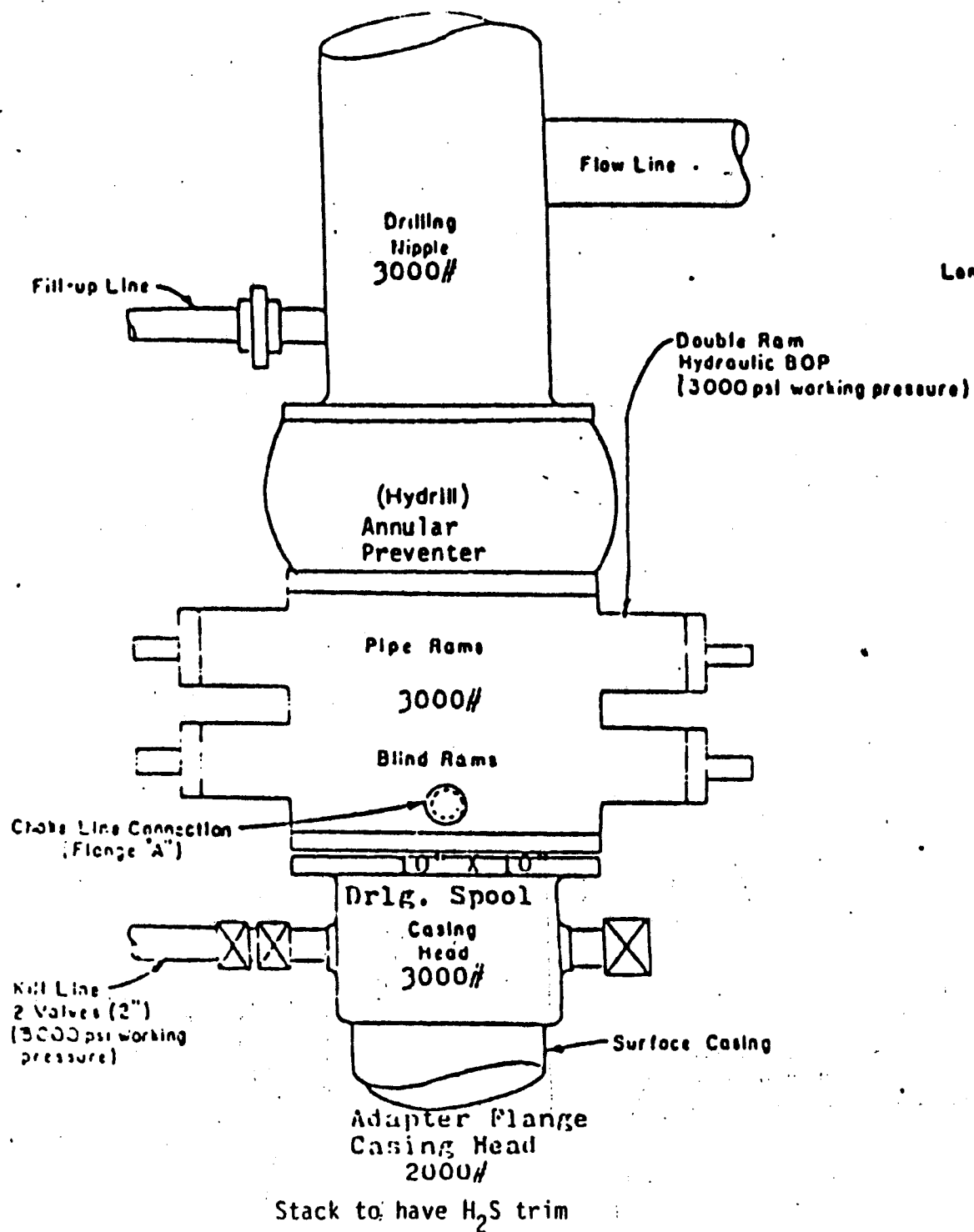
9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 110 psi \pm .

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date Duration of the Operations

The anticipated starting date is set for Sept. 1, 1983, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 20 days after spudding the well to casing point.



PLAN VIEW-CHOKE MANIFOLD

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C
Mid-Continent Oil & Gas Reserves, Inc.
#1 Charger
SE SW Sec. 29 T32S R3E
720' FSL & 2410' FWL
Garfield County, Utah

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A". Staking included two directional reference stakes and elevations; also shown on EXHIBIT "A".
- B. The distance from Escalante, Utah is 34.9 miles. Begin in Escalante, Utah and proceed east on Utah State Highway #12, approximately 24 miles, to Sand Creek Road. (Forest Service #153). Thence left 9.5 miles on gravel road known as Sand Creek Road. (The last 4+ miles are one-lane and dirt presently being upgraded for timber sale road). Thence right onto gravel road with culverts (previous access road to Escalante #2 well drilled and abandoned. New location is within 50 feet of old hole). Proceed 1.4 miles to existing pad, as shown on EXHIBITS "E" & "E₁".
- C. All roads to location are color-coded on EXHIBITS "E" & "E₁". No new access road will be required.
- D. This is an exploratory well. All existing roads within a three-mile radius are shown on EXHIBIT "E".
- E. N/A.
- F. The existing State Highway and Sand Creek Road need no improvement. Maintenance will be performed as required. The grade is 8% or less.

2. Planned Access Roads

Map showing all necessary access roads to be reconstructed is shown as EXHIBIT "E₁" for the following:

A. Drilling Operations

- (1) The maximum width of the 1.4 miles of reconstructed access required for drilling will be 15 feet.

- (2) The grade will be 8% or less.
- (3) No turnouts are planned.
- (4) No drainage design is planned during drilling operations. Brush will be cleared. The existing gravel road needs blading to remove remaining snow. This road has existing water bars at regular intervals. A spring is flowing across the road 0.7 miles east of Sand Creek which must be stabilized and dried.
- (5) No culverts are needed.
- (6) No surfacing material will be required. The road is already graveled.
- (7) No gates, fence cuts, or cattleguards will be installed.
- (8) This road does cross U.S.F.S. lands, as shown on EXHIBIT "E".

B. Production

- (1) If production is obtained, reconstructed road will be graded and surfaced and drainage will be constructed. If accumulated material is not sufficient, additional materials will be provided by dirt contractor.

3. Location of Existing Wells

For all existing wells within a two-mile radius of Exploratory well, see EXHIBIT "F".

- (1) There are no water wells within a two-mile radius of this location.
- (2) There are two abandoned wells in this two-mile radius.
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are no producing wells within this two-mile radius.
- (7) There are no shut-in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

A. Within a one-mile radius of location, the following existing facilities are owned or controlled by Mid-Continent Oil or other lessee/operator:

- (1) Tank Batteries: None.
- (2) Production Facilities: None.
- (3) Oil Gathering Lines: None.
- (4) Gas Gathering Lines: None.
- (5) Injection Lines: None.
- (6) Disposal Lines: None.

B. If production is obtained, new facilities will be as follows:

- (1) Production facilities will be located on solid ground of cut area of drill pad, as shown on EXHIBIT "G".
- (2) All well flow lines will be buried and will be on the well site and battery site.
- (3) Production facilities will be 245 feet long and 135 feet wide. Areas of drill pad not required for production facilities will be rehabilitated.
- (4) All construction materials for battery site and pad will be obtained from site. No additional material from outside sources is anticipated.
- (5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.

C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with U.S.F.S. stipulations.

5. Location and Type of Water Source

A. The source of water will be ponds located in the SW of Sec. 29 T32S R3E as shown on EXHIBIT "E".

- B. Water will be transported by truck over existing roadways, as shown on EXHIBIT "E".
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling well or constructing access roads into the location during drilling. The surface soil materials will be sufficient.
- B. No construction materials will be taken off Federal land.
- C. All surface soil materials for construction of access roads for drilling are sufficient. If well is productive, and material from road and pad is not sufficient, surfacing materials will be provided by Canyon Lands Contracting, Inc. of Grand Junction, Colorado.
- D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be buried in the reserve pit.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt waters, or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of on-site for 30 days only, or 90 days with permission of District Engineer. After that time application will be made for approval or permanent disposal method in compliance with NTL-2b.
- (4) Portable chemical facilities will be provided for human waste.
- (5) Garbage and non-flammable waste and salt and other chemicals produced during drilling or testing will be handled in trash cage. Drill fluids, water, drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "H". The trash cage will be totally enclosed with small mesh wire to prevent wind scattering trash before being buried or removed. Reserve pit will be fenced on three sides during drilling and fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no



ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES

DIAMOND HILL, SUITE 470-C, 2460 WEST 26TH AVENUE, DENVER, COLORADO 80211 (303) 573-6166

September 2, 1983

EXPRESS MAIL #63133063

Division of Oil, Gas & Mining
State of Utah
4241 State Office Building
Salt Lake City, Utah 84114

Attention: Arlene

Dear Arlene:

Re: Filing NTL-6 and APD #9-331C
Mid-Continent Oil & Gas
Reserves, Inc.
#1 Charger
SE SW Sec. 29, T32S-R3E
Garfield County, Utah

Pursuant to our telephone conversation today, please find enclosed three copies of the Application for Permit to Drill and the NTL-6 for the above-captioned well.

As we discussed on the phone, your prompt attention to this Permit would be greatly appreciated.

Thank you very much for your help and understanding in this matter.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

ORLYN TERRY, GEOLOGIST

Carol Rand

Carol S. Rand

Enclosures

cc: Mid-Continent Oil & Gas Reserves, Inc.
Arco Exploration

adverse materials will be left on location. All dangerous open pits will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- (1) EXHIBIT "G" is the Drill Pad Layout as staked, with elevations, by Powers Elevation of Richfield, Utah. Cuts and fills have been drafted to visualize the planned cut across the location spot and to the deepest part of the pad. Topsoil is 8" deep and will be stockpiled, as shown on EXHIBIT "G".
- (2) EXHIBIT "H" is a plan diagram of the proposed rig and equipment, reserve pit, trash cage, pipe racks and mud tanks, access road, parking and turnaround. No permanent living facilities are planned. There will be a trailer on site.
- (3) EXHIBIT "G" is a diagram showing the proposed production facilities layout.
- (4) The reserve pits will not be lined.

10. Plans for Restoration

- (1) If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away to an approved sanitary landfill immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the U.S.F.S. Revegetation is recommended for road area, as well as around drill pad.
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished.
- (4) If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be

flagged overhead or covered with wire mesh.

- (5) The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in Spring, 1984, unless requested otherwise.

11. Other Information

- (1) The location lies in the Canyon Lands section of the Colorado Plateau Province.

The west side of the pad is against a rock cliff with a small drainage to the south side of the pad. The pad basically lies in a bowl with high ridges to the east, north and west.

Soil is loam with rocks and boulders throughout.

The area is a ponderosa pine belt with manzanita bush. Deer, elk, coyotes, cougars, small rodents and birds inhabit the area.

- (2) The primary surface use is for forestry and recreation. The surface is owned by the U.S. Government. U.S.F.S. ownership of access roads is shown on EXHIBIT "E". There is no private ownership of access roads.

- (3) The closest live water is the Sand Creek, less than 50 feet west of the location, as shown on EXHIBIT "E".

The closest occupied dwelling is located in NE 1/4, Sec. 24 T32S R3E 5 miles southeast of the proposed site, as shown on EXHIBIT "E".








There were no archaeological, historical, or other cultural artifacts apparent to Powers' surveyors during their staking of this location. However, a complete, standard cultural resource (including archaeological) survey will be conducted by a qualified archaeologist, and a report submitted to the U.S.F.S., prior to any surface disturbance.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about Sept. 1, 1983. It is anticipated that the casing point will be reached within 20 days after commencement of drilling.

EXHIBIT "E" Access Roads to Location

EXHIBIT "E" - Access Roads to Location

LEGEND

1. Location:
Mid-Continent Oil
#1 Charger
SE SW Sec. 29 T32S R3E
720' FSL & 2410' FWL
Garfield County, Utah
 2. Water Source
 3. Nearest Town
 4. Nearest Live Water
 5. Closest Dwelling
- | | |
|---|-----------------------------------|
|  | Color Coding |
|  | State Highway #12 |
|  | Sand Creek Road
(gravel) |
|  | One Lane Dirt
(being upgraded) |
|  | Gravel Road |
|  | Water Haul Route |
|  | U.S.F.S. Lands |

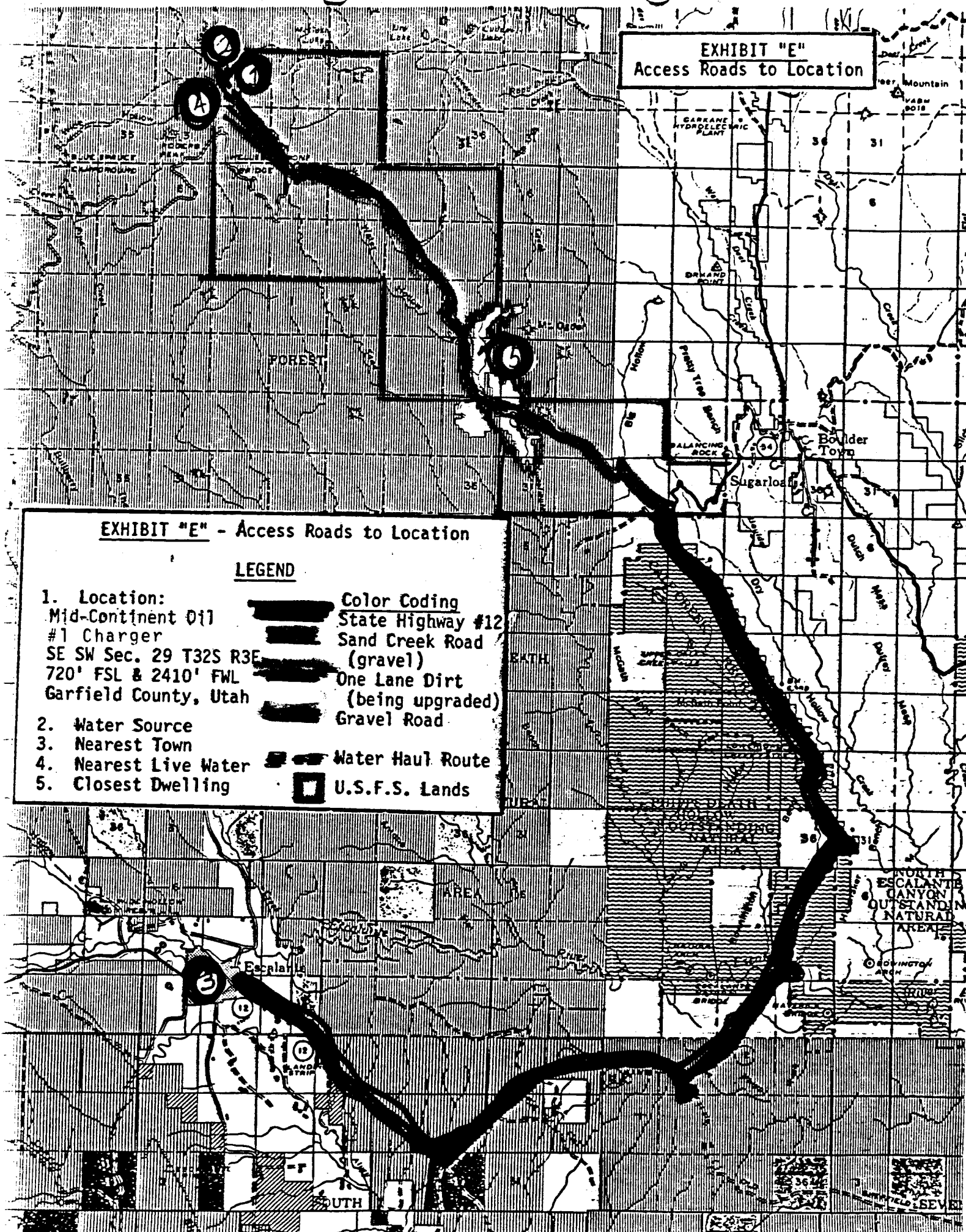


EXHIBIT "E₁"

Detail of Access Road

1. Location: Mid-Continent Oil #1 Charger
SE SW Sec. 29 T32S R3E
720' FSL & 2410' FWL
Garfield County, Utah

Color Coding
Sand Creek Road-1
Lane Dirt, now being upgraded
Gravel Road

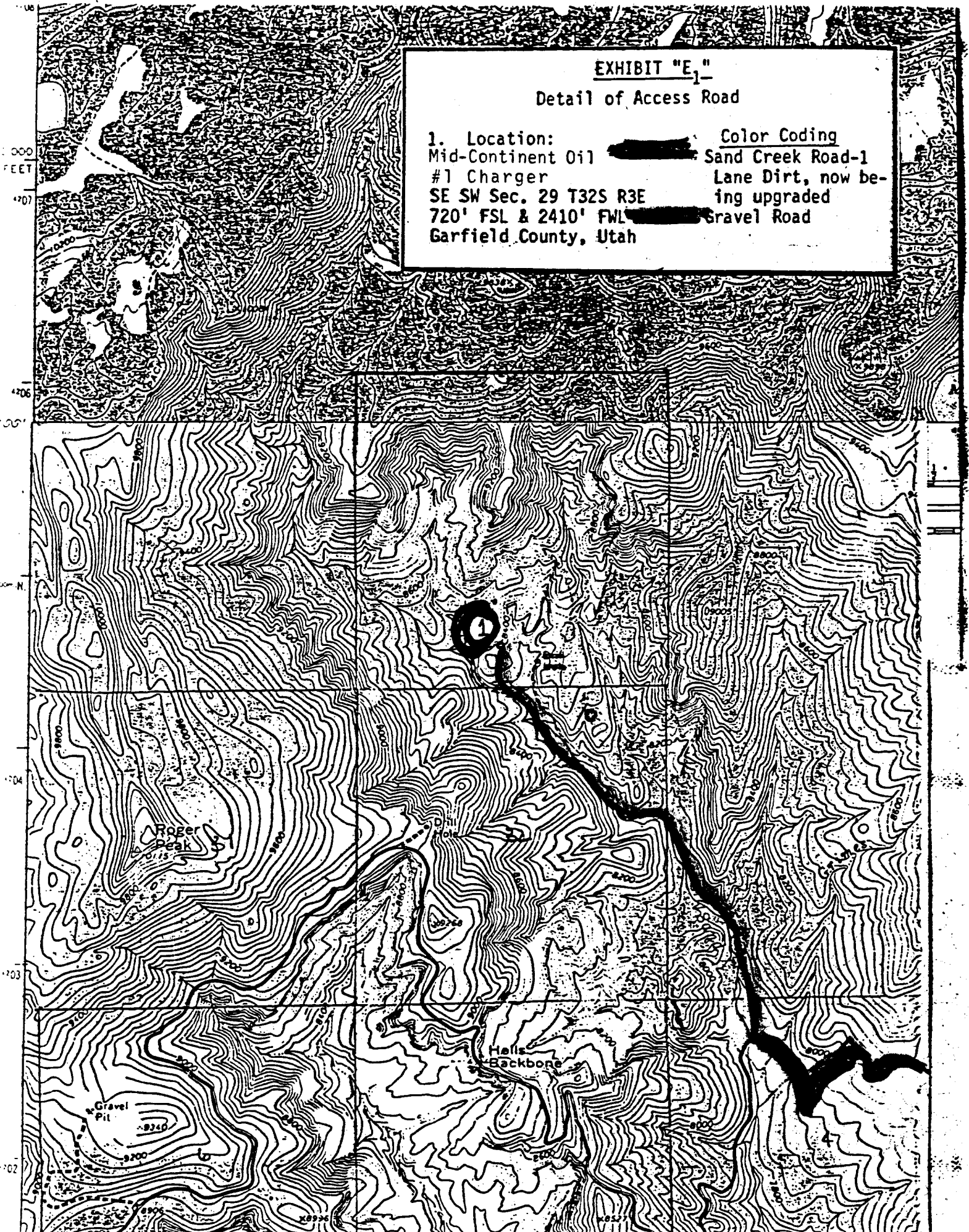
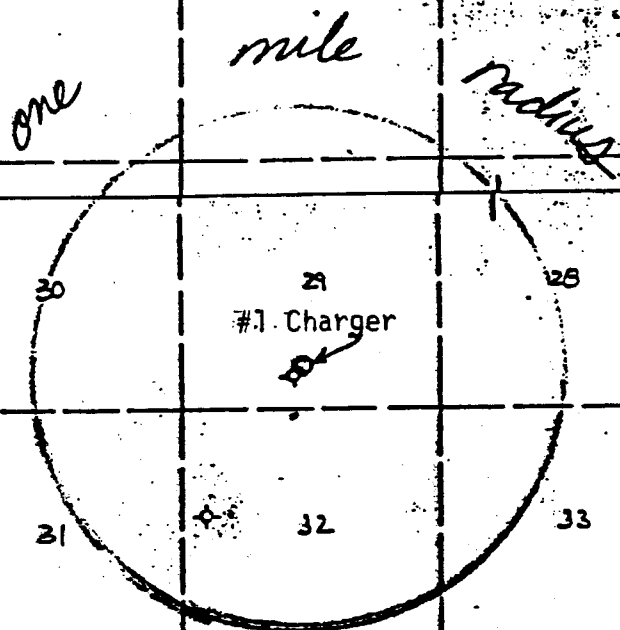


EXHIBIT "F"
Radius Map of Area



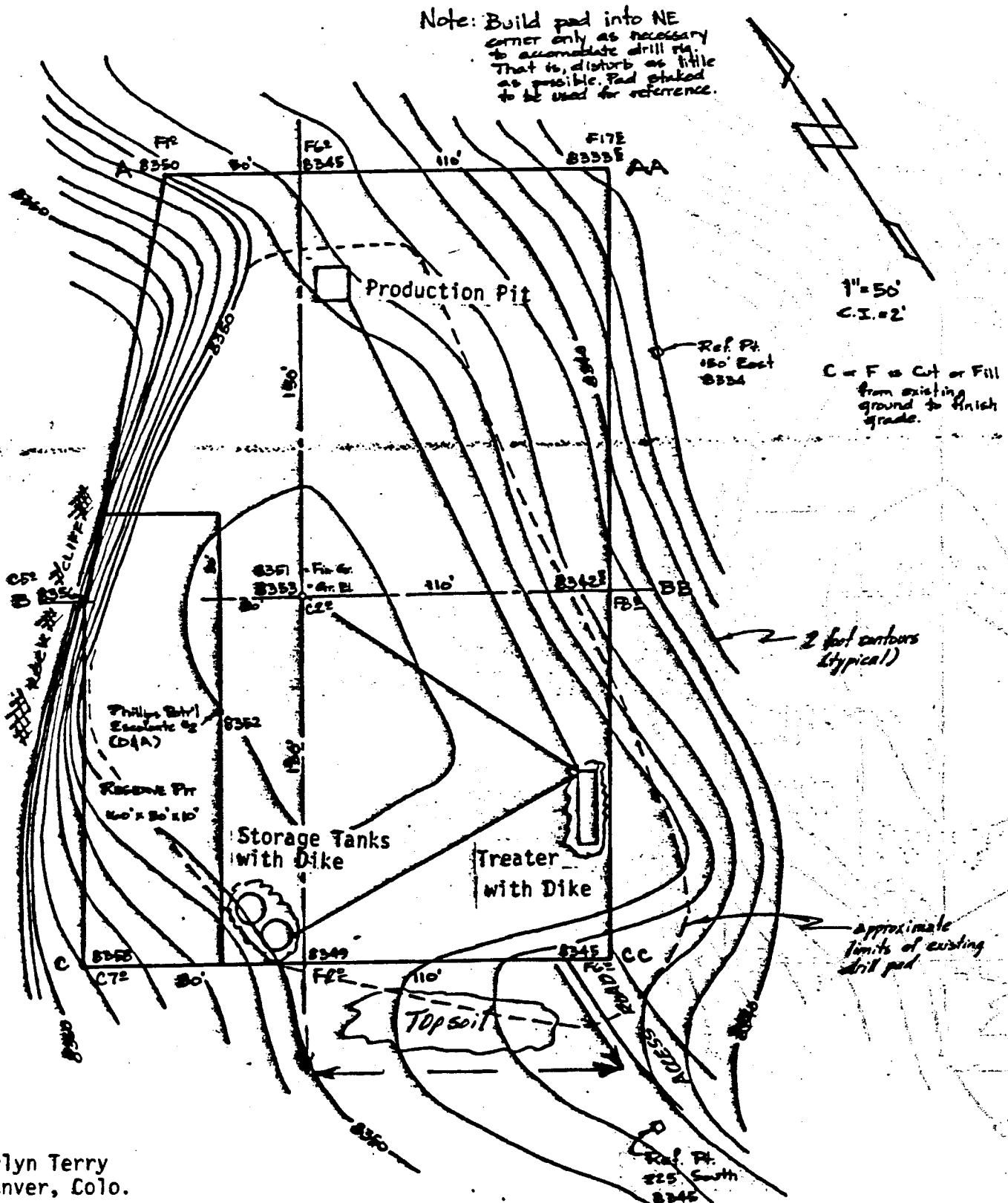
LEGEND

○ LOCATION	◎ DRILLING
⊕ DRY HOLE	⊗ OIL & GAS WELL
● OIL WELL	⊗ ABANDONED OIL & GAS WELL
⊕ ABANDONED OIL WELL	⊗ GAS WELL
△ TRIANGULATION POINT	⊗ ABANDONED GAS WELL
	⊗ WATER WELL

Mid-Continent Oil & Gas Reserves, Inc.
 #1 Charger
 720' FSL, 2410' FWL
 Sec. 29, T32S-R3E
 Garfield Co., Utah

EXHIBIT "G"

Drill Pad Layout and
 Production Facilities



Orlyn Terry
 Denver, Colo.

Sept. 1982

EXHIBIT "G₁"

Cut Fill Cross Sections

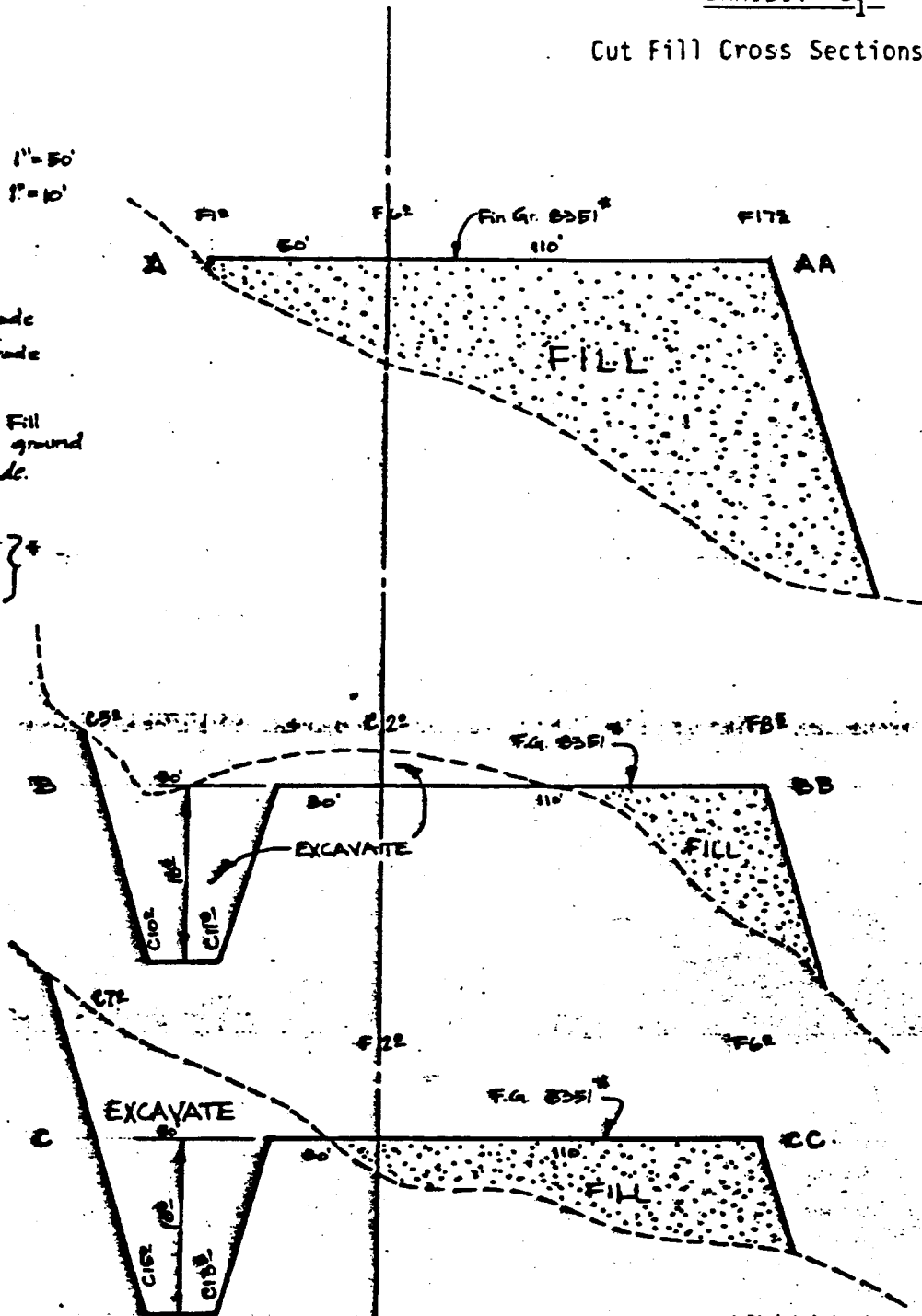
Scales: Horiz. = 1" = 50'
Vert. = 1" = 10'

---- Existing grade
— Proposed grade

C or F to Cut or Fill
from existing ground
to finish grade.

± 4200 yd³ Cut }
± 7500 yd³ Fill }

* Deficiency of fill
in this calculation
will be made up
by excavating finish
grade & additional
feet (8349) ± 3500 yd³.
If necessary to
entirely fill NE cor.
of pad as staked.



Mid-Continent Oil & Gas Reserves, Inc.
#1 Charger
SE SW Sec. 29, T32S-R3E
Garfield Co., Utah

Orlyn Terry
Denver, Colo.

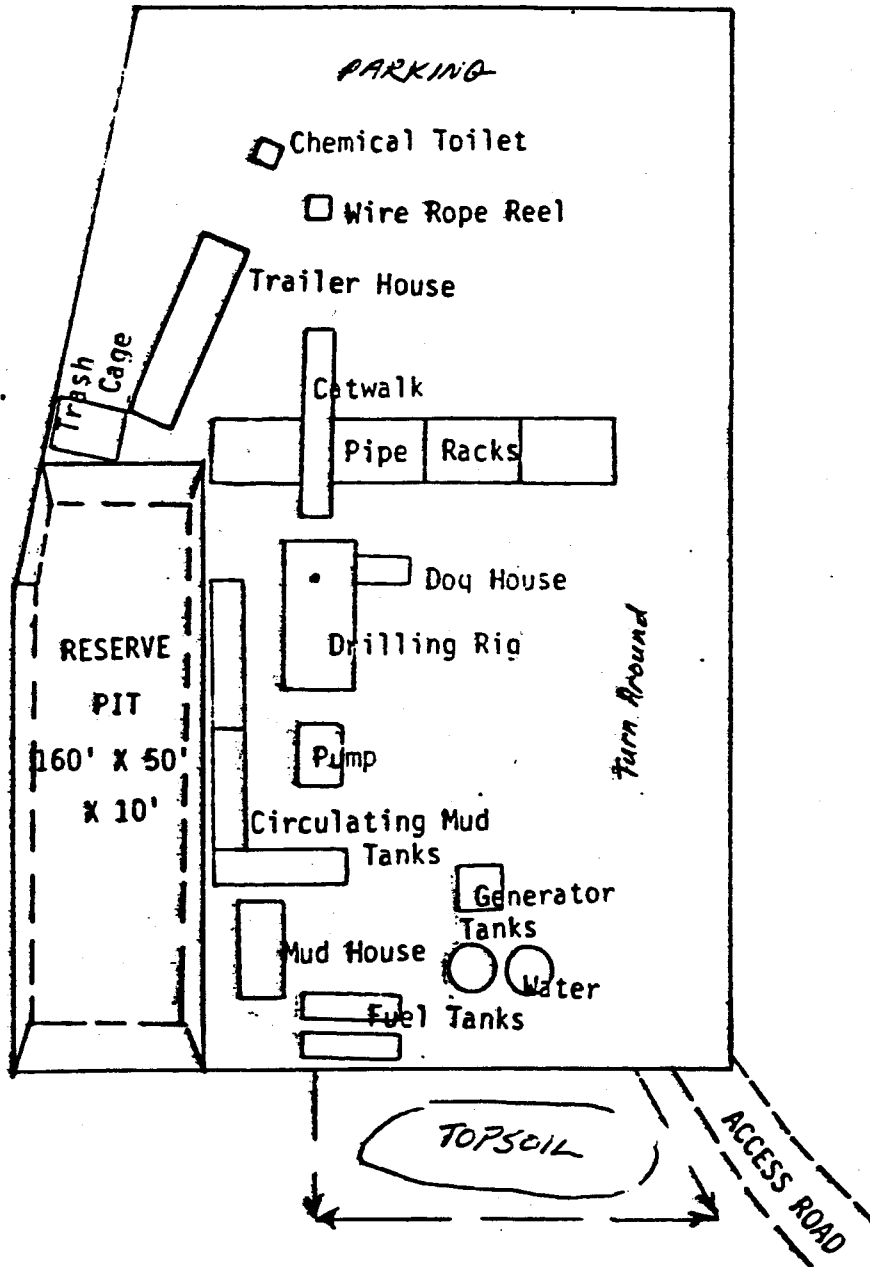
Sept. 1982

Mid-Continent Oil & Gas Reserves, Inc.
#1 Charger
SE SW Sec. 29 T32S R3E
720' FSL & 2410' FWL
Garfield County, Utah

EXHIBIT "H"

Drill Rig Layout

Scale 1" = 50'



OPERATOR Mid-Continent Oil & Gas Reserve DATE 9-6-83
WELL NAME #1 Charger
SEC SESW 29 T 32S R 3E COUNTY Lincoln **032301**

43-017-30120
API NUMBER

Ind.
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/> INDEX	<input type="checkbox"/> MAP	<input type="checkbox"/> HL
<input type="checkbox"/> NID	<input type="checkbox"/>	<input type="checkbox"/> PI

PROCESSING COMMENTS:

Unit well

CHIEF PETROLEUM ENGINEER REVIEW:

9/6/83, FEDERAL UNIT

APPROVAL LETTER:

SPACING:

☒

A-3

Death Hollow
UNIT

☐

c-3-a

CAUSE NO. & DATE

☐

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

- Water -

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON FLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER _____

☒ UNIT Death Hollow Unit

☐ c-3-b

☐ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☐ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

September 6, 1983

Mid-Continent Oil & Gas Reserves, Inc.
12700 Park Central Place, Suite 1404
Dallas, Texas 75251

RE: Well No. 1 Charger
SESW Sec. 29, T. 32S, R. 3E
720' FWL, 2410' FWL
Garfield County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure. Prior to spudding, a copy of the Utah Division of Water Rights (Phone No. 801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise this approval is void.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-017-30120.

Sincerely,


R. J. Firth
Chief Petroleum Engineer

RJF/as
cc: Branch of Fluid Minerals
Encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DIVISION OF DRILL ☒DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL

GAS WELL ☒OIL WELL ☒OTHER ☐SINGLE ZONE ☒MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Mid-Continent Oil & Gas Reserves, Inc.

3. ADDRESS OF OPERATOR

12700 Park Central Place, Suite 1404, Dallas, Texas 75251

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

720' FSL & 2410' FWL (SE SW)

At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

34.9 miles north of Escalante, Utah

10. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

720'

16. NO. OF ACRES IN LEASE

640

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

3700'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

8353' GR

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	AMOUNT OF CEMENT
20"	13-3/8" new or used	54.5#	120'	Cement in place.
12-1/4"	9-5/8" new or used	36#K-55 ST&C	1100'	250 lbs
7-7/8"	5-1/2" new or used	15.5#K-55 LT&C	3700'	250 lbs

1. Drill 20" hole and set 120' interval of conductor pipe and cement in place.
2. Drill 12-1/4" hole and set 9-5/8" surface casing to 1100' with good return.
3. Log B.O.P. checks in daily drill reports and drill 7-7/8" hole to 3700'.
4. Run tests if warranted and run 5-1/2" casing if productive.
5. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The 10-Point Compliance Program
- "C" The Blowout Preventer Diagram
- "D" The Multi-Point Requirements of A.P.D.
- "E" & "E1" Access Road Maps to Location
- "F" Radius Map of Field
- "G" & "G1" Drill Pad Layout, Production Facilities & Cut-Off
- "H" Drill Rig Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production and proposed production. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED John D. Stawter

President

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL

TO OPERATOR'S COPY

*See Instructions On Reverse Side

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A

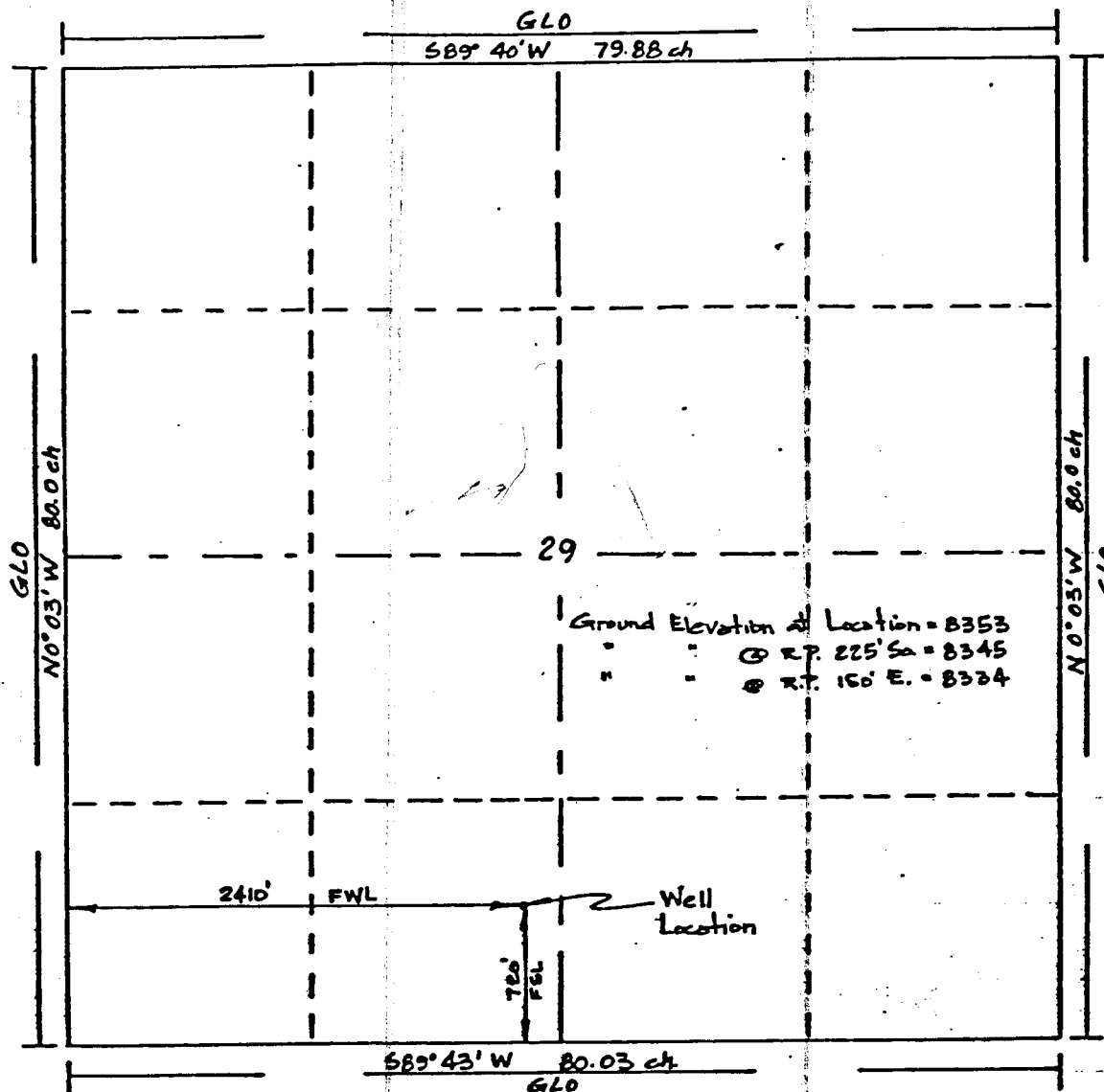
DATED 11/18/80

REC'D. MDO AUG 3 1983



Location & Elevation Plat

R. 3 E.



Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from ORLYN TERRY
for Mid-Continent Oil & Gas Reserves, Inc.
determined the location of #1 Charger
to be 720' FSL & 2410' FWL of Section 29 Township 32 South
Range 3 East of the SALT LAKE Meridian
GARFIELD County, UTAH

I hereby certify that this plot is an accurate representation of a correct survey showing the location of

Date: APRIL 23, 1982

T. Nelson
Licensed Land Surveyor No. 2711
State of UTAH

Water
OK
6/29/83

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

NAME OF COMPANY: MID-CONTINENT OIL & GAS RESERVES

WELL NAME: #1 Charger

SECTION SESW 29 TOWNSHIP 32S RANGE 3E COUNTY Garfield

DRILLING CONTRACTOR _____

RIG # _____

SPODDED: DATE 9-9-83

TIME 8:45 AM

HOW _____

DRILLING WILL COMMENCE _____

REPORTED BY Carol Rand

TELEPHONE # _____

DATE 9-9-83 SIGNED RJF



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Water Rights

154 North Main Street • P.O. Box 506 • Cedar City, UT 84720 • 801-586-4231

September 19, 1983

#1 Change
325 30 S-29
Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

Mid-Continent Oil & Gas Reserves Inc.
12700 Park Central Place Suite 1404
Dallas, TX 75251

RE: Temporary Change Application No. 83-97-33

Gentlemen:

The above numbered Temporary Change Application has been approved subject to:

- 1: Prior Rights.
- 2: **Mid-Continent Oil & Gas Reserves Inc.** acquiring proper right-of-way from the U. S. Forest Service.

A copy of the application is herewith returned to you for your records and future reference.

Yours truly,

Gerald W. Stoker, P. E.
Area Engineer
for
Dee C. Hansen, P. E.
State Engineer

DCH/GWS/sm

Enclosure

pc: Donald C. Norseth
Distribution Engineer

U.S. Forest Service
Escalante Ranger District
P. O. Box 246
Escalante, Utah 84726

State of Utah
Division of Oil & Gas Conservation
400 Capitol Annex Building
Salt Lake City, Utah 84114

file

APPLICATION NO. 83-97-33
DISTRIBUTION SYSTEM ~~ATD~~

Application For Temporary Change of Point of Diversion, Place or Purpose of Use STATE OF UTAH

(To Be Filed in Duplicate)

Salt Lake Sept. 15, 1983
Place Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by 97-378 (Boulder Sub pg 23) map 21
(Give No. of application, title and date of Decree and Award No.)

to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

U.S.A. Forest Service

- The owner of right or application is Mid-Continent Oil & Gas Reserves Inc.
- The name of the person making this application is 12700 Park Central Place Suite 1404 Dallas, TX 75251
- The post office address of the applicant is

PAST USE OF WATER

- The flow of water which has been used in second feet is 49.14
- The quantity of water which has been used in acre feet is 49.14
- The water has been used each year from June 16, to Sept 30th incl.
(Month) (Day) (Month) (Day)
- The water has been stored each year from to incl.
(Month) (Day) (Month) (Day)
- The direct source of supply is West Sand Creek in Garfield County.
- The water has been diverted into Stockwatering directly on stream from pt. of issuance. NE 1/4 SW 1/4 Sec. 17, T32S, R3E, SLB&M to pt. of streams confluence with Sand Creek in NE 1/4 SE 1/4 Sec. 32, T32, R3E SLB&M.
at a point located
Stockwatering directly on stream from pt. of issuance. NE 1/4 SW 1/4 Sec. 17, T32S, R3E, SLB&M to pt. of streams confluence with Sand Creek in NE 1/4 SE 1/4 Sec. 32, T32, R3E SLB&M.
- The water involved has been used for the following purpose:
Supplementally for 1755 cattle in the Boulder allotment (See Map 21 Area 97)

Total acres

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

- The flow of water to be changed in cubic feet per second is .25a.f.
- The quantity of water to be changed in acre-feet is .25a.f.
- The water will be diverted into the North 400' and East 1550' from SW Cor. Sec. 29, T32S, R3E, SLB&M.
at a point located
from West Sand Creek-
- The change will be made from Sept. 19 19 83 to Sept. 30, 19 83
(Period must not exceed one year)
- The reasons for the change are Water is needed temporally for purposes stated in #17.
- The water involved herein has heretofore been temporarily changed 0 years prior to this application.

(List years change has been made)

- The water involved is to be used for the following purpose: Domestic use for 35 people employed in the drilling of a gas well and for cleaning and cooling of equipment.

WELL LOCATED SE 1/4 SW 1/4 Sec 29 T32S R3E SLB&M

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

Gas well is being drilled with air. Water will be used for purpose above stated.

A filing fee in the sum of \$6.00 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Signature of Applicant

(agent)

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$7.50. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:

State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

Change Application No. 83-97-33 Escalante River
(River System)

1. Sept. 15, 1983 Application received by Water Commissioner N. A.
(Name of Commissioner)
Recommendation of Commissioner _____
2. Sept. 15, 1983 Application received over counter by mail in State Engineer's Office by D. W. Stoker
3. Sept. 15, 1983 Fee for filing application, \$7.50 received by D. W. Stoker; Rec. No. 03518
4. _____ Application returned, with letter, to _____, for correction.
5. _____ Corrected application resubmitted over counter by mail to State Engineer's Office.
6. _____ Fee for investigation requested \$ _____
7. _____ Fee for investigation \$ _____, received by _____; Rec. No. _____
8. _____ Investigation made by _____; Recommendations: _____

9. _____ Fee for giving notice requested \$ _____
10. _____ Fee for giving notice \$ _____, received by _____; Rec. No. _____
11. _____ Application approved for advertising by publication mail by _____
12. _____ Notice published in _____
13. _____ Notice of pending change application mailed to interested parties by _____ as follows:

14. _____ Change application protested by _____
(Date Received and Name)
15. _____ Hearing set for _____, at _____
16. _____ Application recommended for rejection approval by _____
17. Sept. 19, 1983 Change Application ~~rejected~~ approved and returned to Applicant

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Subject to Prior Rights.
 2. Subject to Mid-Continent Oil & Gas Reserve, Inc. acquiring proper right-of-way.
 3. from U. S. Forest Service.
- Gerald W. Stoker
Area Engineer
for Dee C. Hansen
State Engineer

A-1 #43-017-30120

APPLICATION NO. 83-97-33
DISTRIBUTION SYSTEM ~~ATD~~**Application For Temporary Change of Point of Diversion,
Place or Purpose of Use****STATE OF UTAH**

(To Be Filed in Duplicate)

Salt Lake Sept. 15, 1983
Place DateFor the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by

(Give No. of application, title and date of Decree and Award No.)

to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

U.S.A. Forest Service

1. The owner of right or application is Mid-Continent Oil & Gas Reserves Inc.
2. The name of the person making this application is 12700 Park Central Place Suite 1404 Dallas, TX 75251
3. The post office address of the applicant is

PAST USE OF WATER

4. The flow of water which has been used in second feet is 49.14
5. The quantity of water which has been used in acre feet is 49.14
6. The water has been used each year from June 16, to Sept 30th incl.
(Month) (Day) (Month) (Day)
7. The water has been stored each year from to incl.
(Month) (Day) (Month) (Day)
8. The direct source of supply is West Sand Creek in Garfield County.
9. The water has been diverted into Stockwatering directly on stream from pt. of issuance. NE 1/4 SW 1/4 Sec. 17, T32S, R3E, SLB&M to pt. of streams confluence with Sand Creek in NE 1/4 SE 1/4 Sec. 32, T32, R3E SLB&M. at a point located at a ditch canal
10. The water involved has been used for the following purpose:
Supplementally for 1755 cattle in the Boulder allotment (See Map 21 Area 97)

Total acres

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

11. The flow of water to be changed in cubic feet per second is
12. The quantity of water to be changed in acre-feet is .25a.f.
13. The water will be diverted into the North 400' and East 1550' from SW Cor. Sec. 29, T32S, R3E, SLB&M. at a point located from West Sand Creek-
North 400' and East 1550' from SW Cor. Sec. 29, T32S, R3E, SLB&M. ditch canal
14. The change will be made from Sept. 19, 19 83, to Sept. 30, 19 83
(Period must not exceed one year)
15. The reasons for the change are Water is needed temporarily for purposes stated in #17.
16. The water involved herein has heretofore been temporarily changed 0 years prior to this application.
(List years change has been made)
17. The water involved is to be used for the following purpose: Domestic use for 35 people employed in the drilling of a gas well and for cleaning and cooling of equipment.

WELL LOCATED SE 1/4 SW 1/4 Sec 29 T32S R3E SLB&M

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORYGas well is being drilled with air. Water will be used for purpose above stated.A filing fee in the sum of \$5.00 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Signature of Applicant

(agent)

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$7.50 Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:

State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

- Change Application No. _____ (River System)
1. Sept 15, 1983 Application received by Water Commissioner N. A.
(Name of Commissioner)
- Recommendation of Commissioner _____
2. Sept 15, 1983 Application received over counter by mail in State Engineer's Office by DEB
3. Sept 15, 1983 Fee for filing application, \$7.50 received by DEB ; Rec. No. 03518
4. _____ Application returned, with letter, to _____, for correction.
5. _____ Corrected application resubmitted over counter by mail to State Engineer's Office.
6. _____ Fee for investigation requested \$ _____
7. _____ Fee for investigation \$ _____, received by _____ : Rec. No. _____
8. _____ Investigation made by _____ ; Recommendations: _____
9. _____ Fee for giving notice requested \$ _____
10. _____ Fee for giving notice \$ _____, received by _____ : Rec. No. _____
11. _____ Application approved for advertising by publication mail by _____
12. _____ Notice published in _____
13. _____ Notice of pending change application mailed to interested parties by _____ as follows:

14. _____ Change application protested by _____
(Date Received and Name)
15. _____ Hearing set for _____, at _____
16. _____ Application recommended for rejection approval by _____
17. _____ Change Application rejected approved and returned to _____

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. _____
2. _____
3. _____

State Engineer

WELL HISTORY

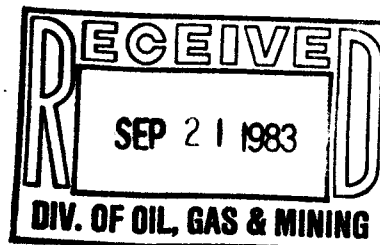
ORLYN TERRY, GEOLOGIST

 2460 West 26th Avenue
 Suite 470-C
 Denver, Colorado 80211
 (303) 573-6166

API # 43-017-30120

Well Name	#1 Charger	Operator	Mid-Continent Oil & Gas Reserves
Location	SE SW Sec.29, T32S-R3E	Contractor	Desert Drilling
County	Garfield	State	Utah
Lease	U-38347		
Prospect/Field	Death Hollow Unit	PTD	3700'
		Spud Date	9-09-83
		Elevation:	8353' GR

Date	Depth	Drilling Report
9-09-83		Spudded; 8:45 AM. Drilled to 42', ran into boulder.
9-10-83		RU large rig.
9-11-83	134'	Drilled 17½" hole. Ran 3 joints of 13-3/8" casing, Set at 128' KB, Ran 2 centralizers. 5 yards cement.
9-12-83		Nipple up. WO fuel.
9-13-83		RU ready to drill, WO air compressor. RU same.
9-14-83		Setting up radio communication from wellsite. Bit #1, 17½" rerun, out at 134', ran 6 hrs. Bit #2, in at 134', 12½", Hughes OSC1G, SOB.
9-15-83	137'	Tagged cement at 105'. Drilled thru cement. Started into formation. Drying up hole to convert to air.
9-16-83	974'	Attempted to dry hole--1 hr; drilled with air mist for 17 hrs.; survey--1½ hrs; circ for trip--¼ hr; Trip--3½ hrs; ream ¾ hrs. Dev. Survey: 137'--3/4°; 231'--3/4°; 323'--3/4°; 634'--½°; 851'--1½°; 943' misrun; 974'--2½°. Bit #2 out at 831', made 694 total feet. Bit #3, Smith F3 rerun, in at 694', SOB. Air mist circ: Pressure 260 psi Circ. 1800 CFM 2 bbls water/hr; 2 gals soap/hr. Surface Tops: Surface Navajo 570' Kayenta 900' Chinle Lithology: 0-120' pale yellowish orange, unconsolidated, fine grn w/occas. med grn, sub rnd-rnd, med grns often well rnd--probably represent lag deposit. 120'-570' SS, white unconsolidated fn grn and incr. med grn. rarely coarse, sub rnd-well rnd, well sorted overall. At 330' started carrying trace pyrite. 570'-880' SS, mod redish orange, predominantly fn grn, sub rnd-rnd, well sorted, trace of sh, pale redish brn, sm tex, soft, non calc. plately. Rarely see ss clusters, mod. redish orange, clusters v.fine-fine grn. Sub rnd-rnd, well sorted, friable, sli calc, minor clay fill, sparsely peppered, fair to occas. good visual poro. Few chips w/abund. pyrite.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. U-38347	
1b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc.		7. UNIT AGREEMENT NAME Death Hollow Unit	
3. ADDRESS OF OPERATOR 12700 Park Central Place, #1404, Dallas, Texas 75251		8. FARM OR LEASE NAME Charger	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 720' FSL, 2410' FWL At top prod. interval reported below same At total depth same		9. WELL NO. #1 Charger	
14. PERMIT NO. 43-017-30120		DATE ISSUED 9-06-83	
15. DATE SPUNDED 9-09-83	16. DATE T.D. REACHED 9-24-83	17. DATE COMPL. (Ready to prod.) 9-26-83	18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 8353' GR
19. ELEV. CASINGHEAD 8357'	20. TOTAL DEPTH, MD & TVD 3443'		
21. PLUG BACK T.D., MD & TVD 3428'	22. IF MULTIPLE COMPL., HOW MANY* ---	23. INTERVALS DRILLED BY →	ROTARY TOOLS X
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Not perforated as yet. All flow tests taken while drilling.			25. WAS DIRECTIONAL SURVEY MADE yes
26. TYPE ELECTRIC AND OTHER LOGS RUN Temperature, Density, Sidewall Neutron, Gamma Ray Caliper			27. WAS WELL CORED no
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13-3/8"	54.5#	128' KB	20"
9-5/8"	36.0#	1365' KB	12 1/4"
5-1/2"	15#	3428' KB	7-7/8"
CEMENTING RECORD		AMOUNT PULLED	
5 yards cement		N/A	
555 sxs cement		N/A	
250 sxs cement		N/A	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT
N/A			
SCREEN (MD)		30. TUBING RECORD	
		SIZE	DEPTH SET (MD)
		N/A	
PACKER SET (MD)			
31. PERFORATION RECORD (Interval, size and number) Shut In until Spring 1984, supplemental report will be furnished at that time.			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
N/A			
33. PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	
WELL STATUS (Producing or shut-in)			
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD
OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL GRAVITY-API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			TEST WITNESSED BY
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED Orlyn Terry		TITLE Independent Geologist	
		DATE 12-20-83	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH TRUE VERT. DEPTH
Shinarump SS	1345'	1588'	SS, unconsol. in samples; white, clear; f to v. crse grnd; ang-subrndd, many grns appear freshly broken; med srtd; trace free pyrite. No show.		
Moenkopi	1588'	2270'	Siltstone, aa; possibly anhydritic-selenite crystals on cuttings. Trace anhydrite, yellowish-gray; dense. No show.		
Sinbad (or Timpoweap)	2270'	2363'	Limestone, grayish orange pink; crypto. some microcrys; med hard; dense, poor to no vis. poro.; Trace Sh; med gray; aa.		
Kaibab	2363'	2582'	Incr. dolomite, mod orange pink, aa. Some limestone, pinkish gray, aa. 20% Chert, white-lt gray; hard; v. sh efferv. and microcrys in part; blocky. 10% of carbonate had trace fluor that was weak, spotty-solid yellow. Trace cut was rapid weak and non-streaming.		
White Rim SS	2582'	3145'	100% SS, unconsol. in samples; white; f-v. coarse grnd; subrnd-well rnd; med sorted.		
Toroweap	3145'	3343'	Grayish orange to pale yellowish brown; v. clayey; mod efferv.		
Organ Rock Sh		TD			

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other <input type="checkbox"/>		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>
2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc.						5. LEASE DESIGNATION AND SERIAL NO. U-38347	
3. ADDRESS OF OPERATOR 12700 Park Central Place, #1404, Dallas, Texas 75251						6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 720' FSL, 2410' FWL At top prod. interval reported below same At total depth same						7. UNIT AGREEMENT NAME Death Hollow Unit	
14. PERMIT NO. 43-017-30120						9. WELL NO. #1 Charger	
DATE ISSUED 9-06-83						10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DATE SPUDDED 9-09-83						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SE SW Sec. 29, T32S-R3E	
16. DATE T.D. REACHED 9-24-83						12. COUNTY OR PARISH Garfield	
17. DATE COMPL. (Ready to prod.) 9-26-83						13. STATE Utah	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 8353' GR						19. ELEV. CASING HEAD 8357'	
20. TOTAL DEPTH, MD & TVD 3443'		21. PLUG, BACK T.D., MD & TVD 3428'		22. IF MULTIPLE COMPL., HOW MANY* ---		23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS ---	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Not perforated as yet. All flow tests taken while drilling.						25. WAS DIRECTIONAL SURVEY MADE yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Temperature, Density, Sidewall Neutron, Gamma Ray Caliper						27. WAS WELL CORED no	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
13-3/8"	54.5#	128' KB	20"	5 yards cement		N/A	
9-5/8"	36.0#	1365' KB	12 1/4"	555 sxs cement		N/A	
5-1/2"	15#	3428' KB	7-7/8"	250 sxs cement		N/A	
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					N/A		
31. PERFORATION RECORD (Interval, size and number) Shut In until Spring 1984, supplemental report will be furnished at that time.				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) N/A AMOUNT AND KIND OF MATERIAL USED			
33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API. (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED Orlyn Terry		TITLE Independent Geologist				DATE 12-20-83	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38.	GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TO	FROM
Shinarump SS	1345'	1588'	SS, unconsol. in samples; white, clear; f to v. crse grnd; ang-subbrnd, many grns appear freshly broken; med srted; trace free pyrite. No show.			
Moenkopi	1588'	2270'	Siltstone; aa; possibly anhydritic-selenite crystals on cuttings. Trace anhydrite, yellowish-gray; dense. No show.			
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Kaibab	2363'	2582'	Incr. dolomite, mod orange pink, aa. Some limestone, pinkish gray, aa. 20% Chert, white-lt gray; hard; v. sli efferv. and microcrys in part; blocky. 10% of carbonate had trace fluor that was weak, spotty-solid yellow. Trace cut was rapid weak and non-streaming.			
White Rim SS	2582'	3145'	100% SS, unconsol. in samples; white; f-v. coarse grnd; subbrnd-well rnd; med sorted.			
Toroweap	3145'	3343'	Grayish orange to pale yellowish brown; v. clayey; mod efferv.			
Organ Rock Sh		TD				



ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES

DIAMOND HILL, SUITE 470-C, 2460 WEST 26TH AVENUE, DENVER, COLORADO 80211 (303) 573-6166

December 19, 1983

State of Utah
Natural Resources
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Dear Sir:

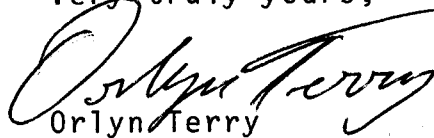
Re: #1 Charger
SE SW Sec. 29, T32S-R3E
Garfield County, Utah
API # 43-017-30120

Since we have not perforated the above-captioned well as yet, we cannot furnish you with a final Completion Report. However, we thought you might be wondering what the status of the well is, so I am filing this rather incomplete report.

A full Completion Report will be furnished to you next Spring when we finish testing the well.

If there are any questions please do not hesitate to contact me.

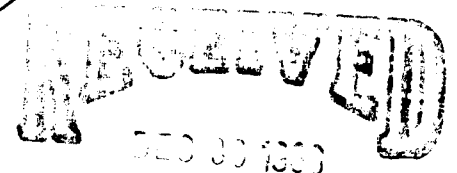
Very truly yours,


Orlyn Terry

OT:cr

Enclosures: Completion Report and Logs

cc: Mid-Continent Oil & Gas Reserves, Inc.
ARCO Exploration Company



DIVISION OF
OIL, GAS & MINING



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

August 27, 1984

Mid-Continent Oil & Gas Reserves, Inc.
12700 Park Central Place, Suite 1404
Dallas, Texas 75251

Gentlemen:

Re: Well No. #1 Charger - Sec. 29, T. 32S., R. 3E.-
Garfield County, Utah - API #43-017-30120

The above referred to well has been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location or what operations are currently being performed on this well. Enclosed please find Form OGC-1B (Sundry Notices and Reports on Wells), that you may use to inform our office of the matter requested above.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

Claudia Jones
Well Records Specialist

clj

Enclosure

cc: D. R. Nielson
R. J. Firth
J. R. Baza
File

99600

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

RECEIVED

SEP 24 1984

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such purposes.)

DIVISION OF OIL
GAS & MINING

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-38347
2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR 12700 Park Central Place, Suite 1404, Dallas, Tx 75251		7. UNIT AGREEMENT NAME Death Hollow Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 720' FSL & 2410' FWL (SE SW)		8. FARM OR LEASE NAME Charger
14. PERMIT NO. 43-017-30120		9. WELL NO. #1 Charger
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 8353' GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 29T32S, R3E
		12. COUNTY OR PARISH Garfield
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>
(Other) <input type="checkbox"/> status report	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The charger #1 is in a completed status, with the exception of the following: (1) setting 5-1/2" stainless steel Christmas tree, including dual gate valves, butterfly valves, etc. (2) The wellhead, spool, gate valves and other allied fittings are on back order from First National Pipe, Grand Junction, Colorado. Delivery date is projected to be during the month of November 1984. (3) The 5-1/2" production string will be perforated when subject Christmas tree and allied equipment has been installed (4) This well will not be produced until production contracts for the use of CO2 have been negotiated. It is anticipated that these CO2 sales contracts will be completed when subject area (i.e. Escalante structure) has been proven to no less than One trillion cubic feet of CO2 gas reserve.

18. I hereby certify that the foregoing is true and correct

SIGNED

S. B. Sparks

TITLE

Secretary

DATE September 18, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. IT IN TRIPLICATE*
 (other instructions on
 reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc. 3. ADDRESS OF OPERATOR 12700 Park Central #1404, Dallas, Texas 75251 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 720' FSL & 2410' FWL (SE SW)		5. LEASE DESIGNATION AND SERIAL NO. U-38347 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME Death Hollow Unit 8. FARM OR LEASE NAME Charger 9. WELL NO. #1 Charger 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29T32S, R3E 12. COUNTY OR PARISH Garfield 13. STATE Utah
14. PERMIT NO. 43-017-30120	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 8353' GR	

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) status report ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The Charger #1 is in a completed status, including the setting of the 5½" stainless steel christmas tree, which includes twin dual gate valves, butterfly valves, etc. This well is equipped and ready for production with the exception that it has not been perforated. This well will not be perforated until production contracts for the use of CO2 have been negotiated. It is anticipated that these CO2 sales contracts will be completed when the subject area (i.e. Escalante structure) has been proven to no less than one trillion cubic feet of CO2 gas reserves.

RECEIVED
 JAN 23 1985

DIVISION OF
 OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED L. B. Sparks

TITLE Corporate Secretary

DATE 1/15/85

(This space for Federal or State Office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 1, 1985

Mid-Continent Oil & Gas Reserves
12700 Park Central Place #1404
Dallas, Texas 75251

Gentlemen:

Re: Well No. #1 Charger - Sec. 29, T. 32S, R. 3E
Garfield County, Utah - API #43-017-30120

The above referred to well has been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location or what operations are currently being performed on this well.

Enclosed is Form OGC-1b, "Sundry Notices and Reports on Wells", that you may use to inform our office regarding this matter.

Sincerely,

Pam Kenna

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0132S/6

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-38347
2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 12700 Park Central #1404, Dallas, Texas		7. UNIT AGREEMENT NAME Death Hollow Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 720' FSL & 2410' FWL (SE SW)		8. FARM OR LEASE NAME Charger
14. PERMIT NO. 43-017-30120		9. WELL NO. #1 Charger
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 8353' GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA Sec. 29T32S, R3E
		12. COUNTY OR PARISH Garfield
		13. STATE Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

status report

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

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18. I hereby certify that the foregoing is true and correct

SIGNED

J. B. Sparks

TITLE

Corporate Secretary

DATE

4/15/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Mid-Continent Oil and Gas Reserves, Inc. Well No. #1-Charger
Location 720' FSL & 2410' FWL Sec. 29, T32S, R3E, SLB&M Lease No. U-38347

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling producing, suspended, or abandoned shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a follow-up report on form 9-331 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Manager's office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sunday Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values ~~(are)~~ (are not) involved at this location. Accordingly, you ~~(must)~~ (need not) notify at least ~~(24)~~ ~~(48)~~ hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

Your contact with this office is: Paul Carter
Office Phone: 801 586 2401 Home Phone: _____
City: Cedar City State: Utah

District Manager's Office Address and contacts are:

Address: 1579 N. Main
District Manager: 801-586-2401 Home Phone: _____

ger's
week-

SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - a. Operator name, address and telephone number.
 - b. Well name and number.
 - c. Well location (1/4, 1/4, Section, Township, Range and Prime Meridian).
 - d. Date was placed in a producing status.
 - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.

- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e. State or private.
- g. If appropriate, the unit agreement name, number and participating area name.
- h. If appropriate, the communitization agreement number.

13. _____

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

- (1) Ponderosa pine regeneration established on the edges of the old location will be left undisturbed where possible.
- (2) Truck traffic and road use within Grimes Creek and Sweetwater timber sales will be coordinated with Escalante Sawmills, Inc.
- (3) Logging slash and drainage problems associated with logging operations on the Sand Creek Road (#30163) will be the responsibility of Escalante Sawmills.
- (4) Road closure, temporary drainage, or upgrading (if well is a producer) will be the responsibility of Mid-Continent Oil & Gas Reserves, Inc.
- (5) To protect fresh water aquifers in the Navajo and Wingate Formations, adequate cement must be used in the 1,100 foot intermediate casing string to circulate to surface.
- (6) Sample any water shows from the Navajo and Wingate Formations. Provide the results of sampling to the Bureau of Land Management, Cedar City District.

MID-CONTINENT OIL COMPANY

CHARGER #1

SE SW SEC 29 T32S R3E

GARFIELD COUNTY, UTAH

RECEIVED
JUN 16 1986

**DIVISION OF
OIL, GAS & MINING**

W E L L S I T E G E O L O G I S T ' S R E P O R T

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DEVIATIONS

DRILLING CURVE

COMPOSITE SAMPLE LOG

DRILLING TIME LOG

T. M. MCCOY & CO., INC.
CONSULTING GEOLOGISTS

1190 NEPTUNE DRIVE, LAFAYETTE, COLORADO 80026 303/443-6861

Mid-Continent Oil Company
Charger #1

DISCUSSION

The decision to run production casing for completion of the carbon dioxide bearing zones in the Mid-Continent Charger #1 was based primarily on the large volumes of gas flowed from the well at low but sustained pressures. Although less important than the flow tests, well evaluation also was based on drilling time, sample analysis of cuttings, and the sidewall neutron, density and temperature logs. Additional wells are planned to develop the carbon dioxide reservoir indicated by the success of the Mid-Continent Charger #1.

Drilling History

While exploring for oil in Escalante Anticline in 1961, large flows of carbon dioxide--up to 41 MMCFPD--at low pressure were recorded from the Phillips #2 Escalante Anticline, SE SW SEC 29 T32S R3E, from 1360' - 3440'. The Phillips #2 Escalante Anticline was drilled with air to 5005' and thereafter drilled with mud due to influx of salt water (first reported at 4918'). Lost circulation and CO2 gas flows plagued the Phillips #2 Escalante Anticline: one history of the well shows 20 cement plugs (1750 sacks) and 6000 barrels of mud and lost circulation material were used prior to abandonment.

In 1980 Atlantic Richfield Company reentered the hole. Circulation was lost after drilling the bottom plug in intermediate casing and 900 barrels of mud and lost circulation material were pumped down the hole. CO2 at the rate of 614 MCFPD was recorded for the interval 3700' - 2607'. The hole was again abandoned.

Mid-Continent Oil Company
Charger #1

DISCUSSION (cont'd)

Objectives

Severe formation damage in the Phillips #2 Escalante Anticline was suggested by the reduction of CO2 flow from 41 MMCFPD measured in the air drilled hole to 614 MCFPD measured on the reentry after exposure to cement, salt water, mud and lost circulation material. Therefore, guidelines for the Mid-Continent Charger #1 were to twin the Phillips #2 Escalante Anticline with a new hole rather than to attempt reentry again; to drill all carbon dioxide bearing horizons with air--dust, not mist; to cease drilling at the first sign of formation water; and to use a comingled, modified open hole completion method. The Shinarump Sandstone, the Sinbad or Timpoweap Limestone, the Kaibab Limestone, the White Rim Sandstone, Toroweap Formation and the Cedar Mesa Sandstone were considered prospective.

Major Productive Intervals

The following intervals appear to be the main contributors to CO2 production in the Mid-Continent Charger #1.

1365' - 1588'	Shinarump Sandstone
2400' - 2580'	Kaibab Limestone
3020' - 3145'	Toroweap Formation
3350' - 3436'	Organ Rock Shale?

These intervals are characterized by very rapid drilling, "blown out" hole size increases shown on the caliper log, and neutron-density curve crossover. (Neutron-density curve crossover is exaggerated and probably is due more to hole size increases than to "gas effect"...although the hole size increases are surely related to gas flow into the well.)

Mid-Continent Oil Company
Charger #1

DISCUSSION (cont'd)

Temperature log run #1 was made while well flowed through two 2" openings and one 1" opening--this pass is labeled "three openings". The log had surprisingly little character for the very large volume of gas being flowed. Run #2 was made to determine if more detail could be obtained by reducing the volume of gas flowed during logging: run #2 was made while well flowed through one 2" opening--this pass is labeled "one opening". Run #3 was made with the well completely opened. Smallest restriction to the flow was a 6" opening in the well head--this pass is labeled "four openings".

For all three temperature log runs, shut-in pressure was approximately 100 psi and flowing pressure was approximately 95 psi. Only 5 psi drop could be obtained with the well completely opened. No further attempts were made to obtain a temperature log with better definition of the gas entry intervals because an adequate pressure drop in the borehole could not be created. The well simply flowed too much gas without significant reduction in pressure.

The temperature gradient calculated from the temperature log of the Mid-Continent Charger #1 is 0.9 degrees F/100 ft. For comparison, geothermal gradients of 1 to 2 degrees F/100 ft are common.

Samples of the Shinarump Sandstone consisted mainly of unconsolidated quartz sand, precluding visual estimation of porosity. Intergranular and perhaps fracture porosity and permeability are postulated for the Shinarump Sandstone. The Kaibab Limestone exhibited poor to no visual porosity and no visual porosity was evident in the dolomitic marlstone pay of the Toroweap Formation. Samples of the indicated pay in the Organ Rock Shale (?) were pulverized and provided no porosity information. Fractures and/or vugs--features which are commonly not evident in cuttings--probably provide the porosity and permeability which yield the high CO₂ flow rates and sustained pressures observed in the Kaibab, Toroweap, and Organ Rock.

Mid-Continent Oil Company
Charger #1

DISCUSSION (cont'd)

Oil Shows

A number of oil shows were found in the Mid-Continent Charger #1 and are detailed in the "Summary of Shows & Lithology" section of this report. Trace fluorescence and trace to fair cuts were observed in sandstones of the Moenkopi Formation. Shows in the Sinbad (or Timpoweap) Limestone are common and samples of the Sinbad in the Mid-Continent Charger #1 exhibited fair fluorescence and fair cut. Trace to fair fluorescence and trace to fair cuts occurred in the Kaibab carbonates. The uppermost sandstone unit of the White Rim had no fluorescence but did yield a fair cut. Toroweap carbonates displayed trace to fair fluorescence and trace to fair cuts. Puzzling, dark gray to black, greasy clay recovered in the last samples of the Organ Rock did not fluoresce but did yield a fair cut.

None of these shows is believed to reflect commercial quantities of oil or natural gas in the Mid-Continent Charger #1. However, the presence of even trace amounts of hydrocarbons in a structure as large as Escalante Anticline is encouraging and such shows may provide leads to oil and natural gas trapped outside the C02 reservoir.

Remarks

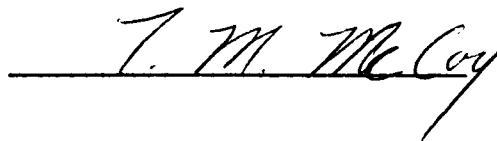
Petroleum Information completion records show that gas from 2601' in the Phillips #2 Escalante Anticline carried a sulfur odor. Similarly, an occasional sulfur odor was noted in the Mid-Continent Charger #1 from 1365' to 3443' TD. Trace amounts of H2S were suggested by the odor occurring more frequently along the stream drainage below the location than up on the rig floor. However, it is reported that analysis of gas from the Phillips #2 Escalante Anticline shows very high quality C02 with no measurable H2S, and any H2S present in the Mid-Continent Charger #1 is expected to occur in negligible quantities.

Mid-Continent Oil Company
Charger #1

DISCUSSION (cont'd)

For important wells, I feel that a wellsite geologist's report should not only record the rocks and their contents, but should also convey some impressions from the field...hence, I include the following comments and subjective observations. The Mid-Continent Charger #1 is a low pressure, very high volume well. Anyone who witnessed the Mid-Continent Charger #1 flowing through the 8" line has great respect for what "only 100 psi" flowing pressure can do. An angle in the blue line was cut out several times before it had to be converted to a straight line of flow. Men had of course seen rotating head rubbers wear out, but none on location had seen the thick steel of the body of the rotating head cut through by any well. To say that ear plugs were helpful is not an exaggeration; crew members pressed their hands over their ears when anywhere near the flow. Inside the logging truck, the sound of the well flowing resembled that which one hears inside a jet during take-off. The force of the CO2 flow pinned the temperature logging tool against the opening to the blue line until the flow was stopped by adding a valve to the line; only then would the tool drop down the gas filled hole. I was told that even production casing had to be snubbed in until enough joints were run to overcome the flow. In addition to the roar, I personally will remember most the 8" to 12" diameter trees being rocked 150' beyond the blue line.

Finally, I wish to acknowledge the orientation and long distance help given to me by Orlyn Terry, the exploration geologist who foresaw and pursued the potential of Esclante Anticline.

A handwritten signature in dark ink, reading "T. M. McCoy", is written over a horizontal line.

T. M. McCoy
Consulting Geologist

Mid-Continent Oil Company
Charger #1

WELL DATA

OPERATOR: Mid-Continent Oil Company

WELL NAME: Charger #1

LOCATION: 720' fs1 2410' fw1
SE SW Sec. 29, T32S, R3E
Garfield County, Utah

ELEVATIONS: 8353' GL 8361' KB

FIELD: Wildcat--Escalante Anticline

ROAD DIRECTIONS: From Utah Highway 12 on the east edge of Escalante, N 25 miles on Forest Route 153 to Hell's Backbone Bridge; SE & N 2.9 miles across bridge, continue 100' across Sand Creek; N 1.7 miles along Sand Creek to location.

SURFACE CASING: 3 joints 13 3/8" set at 128' KB; cemented with 5 yards cement.

INTERMEDIATE CASING: 34 joints 9 5/8" set at 1365' KB; cemented with 555 sacks cement.

SPUD DATE: 10 September 1983

DRILLING COMPLETED: 24 September 1983 12:05 a.m.

TOTAL DEPTH: 3443' Driller 3436' Logger

LAST FORMATION PENETRATED: Permian: Organ Rock tongue of the Cutler Fm.

WELL STATUS: 5 1/2" production casing was run for modified open hole completion of all CO2 gas bearing zones from 1365' in the Shinarump member of the Moenkopi Fm. through 3443' TD in Organ Rock tongue of the Cutler Fm.

OPERATOR REPRESENTATIVE: John. D. Slawter

Mid-Continent Oil Company
Charger #1

FORMATION TOPS

Formation	Log Top	(8361' KB) Datum	Sample Top
JURASSIC			
Navajo Sandstone	-----	-----	Surface
TRIASSIC			
Kayenta Formation & Wingate Sandstone Undivided	-----	-----	570'
Chile Formation	-----	-----	900'
Shinarump Sandstone Member Of Chinle Formation	-----	-----	1345'
Moenkopi Formation	1588'	+6773'	1590'
Sinbad (Or Timpoweap) Limestone Member of Moenkopi Formation	2270'	+6091'	2267'
PERMIAN			
Kaibab Limestone	2363'	+5998'	2359'
White Rim Sandstone & Toroweap Formation Undivided	2582'	+5779'	2582'
Organ Rock Shale ?	3145'?	+5216'?	3145'?
TD	3336'	+5025'	3343'

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY

The following descriptions are interpretive. From surface to 1365' descriptions are based only on samples and are not tied to the drilling time log; from 1365' to 3443' TD descriptions are tied to the wireline logs. Sample quality was generally good from surface to 3140'. Few cavings contaminated samples, however, an abundance of rock dust and an insufficient number of rock chips were common problems which resulted from drilling with air. Below 3140' sample quality was very poor. Samples were collected as follows:

<u>Depth</u>	<u>Interval</u>
0' - 2800'	30'
2800' - 3443' TD	20'

Grain size was determined by use of the American Stratigraphic Company standard. Rock colors were compared to the Rock-Color Chart distributed by the Geological Society of America. All cut tests for hydrocarbons were performed with naptha (lighter fluid) unless noted otherwise. Effervescence refers to the reaction of drill cuttings in 10% HCl.

The sample study begins in the Lower Jurassic Navajo Sandstone.

NAVAJO SANDSTONE

TOP: Crops out on location.

0' - 120'

Sandstone, unconsolidated in samples; pale yellowish orange; predominantly fine grained, occasionally medium grained; subrounded to rounded; mostly well sorted; medium grains and rare coarse grains suggest aeolian lag. No show.

120' - 330'

Sandstone, unconsolidated in samples; white; fine grained with increased medium grained, rarely coarse grained; subrounded to well rounded in part; mostly well sorted. No show.

330' - 570'
show.

Sandstone, as above, with trace to 1% free pyrite. No

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

KAYENTA FORMATION & TOP: 570' DATUM: +7791'
WINGATE SANDSTONE UNDIVIDED

570' - 632' Sandstone, unconsolidated in samples; moderate reddish orange; fine grained; subrounded to rounded; trace rounded to well rounded medium grains; well sorted. Trace interbedded Shale, pale reddish brown; smooth; soft; non-effervescent; platy. No show.

632' - 665' Sandstone, unconsolidated in samples; as above. 1% Sandstone clusters, moderate reddish orange; very fine to fine grained; subrounded to rounded; well sorted; friable; very slightly effervescent; minor clay fill; sparsely peppered; fair to some good visual porosity. Trace Sandstone, fine grained; abundant pyrite cement. No show.

665' - 727' Sandstone, unconsolidated in samples; moderate reddish orange; fine grained, occasionally medium grained, rarely coarse grained; subrounded to rounded; generally well sorted. No show.

727' - 758' Sandstone, unconsolidated in samples; as above. Sandstone clusters, moderate reddish orange; very fine to fine grained; subrounded to rounded; well sorted; medium friable; slightly effervescent; minor clay fill; sparsely peppered; fair visual porosity. No show.

758' - 900' Sandstone, unconsolidated in samples; moderate reddish orange; very fine grained to fine grained, occasionally medium grained; subrounded to rounded; generally well sorted. No show.

CHINLE FORMATION TOP: 900' DATUM: +7461'

900' - 940' Siltstone, pale red, part mottled light olive gray to greenish gray; some with abundant very fine to fine grained subangular dispersed sand; hard; dolomitic; argillaceous; grades to Sandstone, pale red; very fine to fine grained; subangular; hard; dolomitic; argillaceous; silty; poor visual porosity. Trace Dolomite, pale red and light olive gray; crypto-crystalline; hard; slight HCl insoluble residue; dense, no visible porosity. No show.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

- 940' - 970' Claystone and Siltstone, pale reddish brown to moderate reddish brown; soft to firm; very slightly effervescent; argillaceous; subblocky. No show.
- 970' - 1000' Sandstone, pale red; very fine to fine grained; subangular; well sorted; firm; slightly calcareous; argillaceous; moderately peppered in part; poor to fair visual porosity. Interbedded Claystone and Siltstone, as above. Minor Siltstone, pale reddish purple; medium hard; slightly dolomitic; argillaceous; subblocky. No show.
- 1000' - 1030' Claystone and Siltstone, pale reddish brown to moderate reddish brown, part mottled light olive gray; soft to firm; slightly to moderately dolomitic; argillaceous; subblocky. Minor Dolomite, light olive gray, some with lacy red clay inclusions. No show.
- 1030' - 1067' Sandstone, pale red; fine to medium grained; angular to subangular; medium well sorted; hard; moderately effervescent; staining with Alizarin Red S indicates both dolomite and calcite cement; some white clay fill; peppered; tight; poor visual porosity. Sandstone, grayish pink; fine to very coarse grained; angular to subangular; poorly sorted; hard; moderately calcareous; broken quartz grains; conglomeratic, associated with loose very coarse grained sand and granules; poor visual porosity. No show.
- 1067' - 1098' Siltstone, pale reddish brown; firm to medium hard; slightly effervescent, chips slowly disintegrate to silty argillaceous HCl insoluble residue; subblocky. Minor Dolomite, pale red, pinkish gray, yellowish gray; cryptocrystalline; hard; argillaceous in part; blocky; dense; associated with Claystone, yellowish gray and light greenish gray; smooth; medium hard to soft; very slightly effervescent. No show.
- 1098' - 1129' Siltstone, pale reddish brown, mottled pinkish gray; some appears very fine sandy or very fine crystalline; firm to medium hard; very calcareous, chips disintegrate rapidly to silty argillaceous HCl insoluble residue; subblocky. Minor Limestone, grayish pink to pale red; cryptocrystalline to some very fine crystalline; hard; clean to silty and argillaceous; blocky; dense, no visible porosity. No show.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

- 1129' - 1160' Siltstone, pale reddish brown, few chips mottled; firm to some medium hard; moderately calcareous, chips disintegrate in HCl; subblocky. Trace Claystone, yellowish gray to light greenish gray; smooth; soft to firm; slightly effervescent. No show.
- 1160' - 1190' Siltstone, pale reddish brown, few chips mottled; as above. Minor Claystone, yellowish gray to light greenish gray. No show.
- 1190' - 1220' No sample.
- 1220' - 1250' Claystone and Siltstone, pale reddish brown, few chips mottled; firm to some medium hard; moderately calcareous, chips disintegrate in HCl; subblocky. Trace Claystone, yellowish gray to light greenish gray. Minor Sandstone, grayish red; very fine to fine grained; subangular; well sorted; medium hard; moderately effervescent; argillaceous; peppered; trace pyrite; appears arkosic; poor visual porosity. No show.
- 1250' - 1280' Claystone and Siltstone, pale reddish brown; as above. Minor Claystone, grayish red; smooth; firm; non- to slightly effervescent; subblocky. No show.
- 1280' - 1310' Shale, black; carbonaceous, coaly in part; earthy to rarely subvitreous; firm to medium hard; numerous fractures, many chips with two perpendicular fracture planes; very light gray cryptocrystalline dolomite fills fractures; often pyritic; trace white to light gray fracture fill that is not soluble in acid. Claystone, grayish red purple, pale red to grayish red, light to medium greenish gray; smooth; firm; non-effervescent; chips disintegrate in water; subblocky. Minor Limestone, light brownish gray; cryptocrystalline; hard; quite clean; rarely present as nodules or rounded granules; dense, no visible porosity. No show.
- 1310' - 1333' Claystone and Siltstone, pale reddish brown; firm; moderately effervescent; subblocky. Claystone, light to medium greenish gray, light brownish gray; firm; non- to slightly effervescent; subblocky. No show.
- 1333' - 1345' Claystone, highly mottled, light gray to light brownish gray and dusky red, trace yellowish orange; silty or very fine grained sandy in part; firm; non-effervescent; subblocky. No show.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

SHINARUMP SANDSTONE TOP: 1345' DATUM: +7016'
MEMBER OF CHINLE FORMATION

- 1345' - 1350' Sandstone, pinkish gray; very fine grained; grain shape indistinguishable; well sorted; firm to medium hard; non-effervescent; abundant clay fill; trace muscovite; poor visual porosity. No show.
- 1350' - 1365' Sandstone, light brownish gray to pale yellowish brown; very fine to fine grained; subangular; well sorted; firm to medium hard; non-effervescent; moderate clay fill; fair visual porosity--excellent drilling break suggests better porosity than is indicated in samples. No show.
- Note: 9 5/8" intermediate casing set at 1365' KB. The following descriptions are tied to the wireline logs.
- 1365' - 1560' Samples pulverized; gray dust.
- 1560' - 1588' Sandstone, unconsolidated in samples; white, clear; fine to very coarse grained; angular to subrounded, many grains appear freshly broken; medium sorted; trace free pyrite. No show.

MOENKOPI FORMATION TOP: 1588' DATUM: +6773'

- 1588' - 1620' Siltstone, pale red to grayish red; varies from soft to medium hard; slightly effervescent, dolomite suggested; subblocky. Trace inter laminated Shale, grayish black; firm; very slightly effervescent; platy. Minor Dolomite, pinkish gray; microcrystalline; medium hard; very slightly argillaceous; dense; no visible porosity. Trace Claystone, medium light gray. No show.
- 1620' - 1650' Siltstone, as above; possibly anhydritic as suggested by selenite crystals formed on cuttings. Trace Anhydrite, yellowish gray; dense. No show.
- 1650' - 1680' Interbedded Siltstone and Shale, grayish red; firm; non-effervescent; possibly anhydritic in part; subblocky. Minor Claystone, pinkish gray; slightly sandy in part; soft; non-effervescent; subblocky. No show.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

- 1680' - 1710' Interbedded Siltstone and Shale, as above. Trace Sandstone, unconsolidated in samples; white; coarse to very coarse grained; subangular; well sorted. No show.
- 1710' - 1804' Interbedded Siltstone and Shale, grayish red; firm; non-effervescent; possibly anhydritic in part; subblocky. Minor Sandstone, unconsolidated in samples; white; medium to very coarse grained; subangular; medium sorted. No show.
- 1804' - 1852' Siltstone and Shale, grayish red; firm; non- to very slightly effervescent; subblocky. Minor Claystone, yellowish gray; soft; subplaty to subblocky. No show.
- 1852' - 1856' Sandstone, unconsolidated in samples; clear to white; fine to very coarse grained; angular to subangular; medium sorted.
- Show: Trace fluorescence was dull spotty yellow. Trace cut was rapid, weak, non-streaming and dried to a faint yellow halo. Many chips have minute black specks, possible asphaltic residue.
- 1856' - 1915' Siltstone, grayish red; firm; slightly effervescent; argillaceous; micro-micaceous; grades to claystone; subblocky. Minor interbedded Sandstone, unconsolidated in samples; white to clear; medium to very coarse grained; angular to subround; medium sorted.
- Show: Sandstone exhibited trace fluorescence that was dull, solid to spotty yellow. Trace cut was slow weak non-streaming milky blue.
- 1915' - 1949' Sandstone, unconsolidated in samples; white to clear; very fine to very coarse grained; angular to subrounded; poorly sorted.
- Show: 5% had trace fluorescence that was dull, solid to spotty yellow. Trace cut was slow weak non-streaming milky blue.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

1949' - 2003' Siltstone, grayish red; firm; slightly effervescent; argillaceous; micro-micaceous; grades to claystone; subblocky. Some interbedded Sandstone, as above.

2003' - 2034' Dolomite, grayish orange pink; cryptocrystalline to microcrystalline; medium hard; argillaceous, silty; poor visual porosity where microcrystalline. Trace mineral fluorescence; no cut. Some Siltstone, grayish red, as above.

2034' - 2051' Shale, grayish red; silty in part; firm; slightly effervescent; subplaty to subblocky. Minor Sandstone, unconsolidated in samples; white to clear; medium to very coarse grained; angular to subrounded; medium sorted.

Show: 20% of sandstone had trace fluorescence that was weak spotty yellow. Virtually no cut.

2051' - 2066' Interbedded Shale grayish red and Siltstone, pale red; argillaceous; firm; slightly effervescent; micaceous; subblocky.

2066' - 2132' Sandstone, unconsolidated in samples; white to yellowish gray; very fine to very coarse grained; angular to subrounded; poorly sorted; rare clusters are very fine grained, silty, argillaceous, and exhibit poor visual porosity.

Show: 75% had trace fluorescence that was weak spotty yellow. Fair cut was rapid, medium strength, slightly streaming milky blue from rare clusters.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

- 2132' - 2193' Interbedded. Shale, grayish red and Siltstone, pale red, argillaceous; very fine grained sandy in part; firm; slightly effervescent; micaceous; subblocky. Sandstone, mostly unconsolidated in samples; very light gray; very fine to very coarse grained; angular to subrounded; poorly sorted; hard; slightly effervescent; lightly peppered; tight; poor visual porosity; possible cavings.
- Show: 30% of sandstone had trace fluorescence that was weak spotty yellow. Fair cut was rapid, medium strength, slightly streaming milky blue.
- 2193' - 2223' Shale, grayish red; silty in part; firm; non- to slightly effervescent; subplaty to subblocky. Siltstone, pale red to grayish red, minor pinkish gray; firm; slightly effervescent; micaceous in part; subblocky. Sandstone, unconsolidated in samples; white to clear; fine to coarse grained; angular to subangular; medium sorted.
- Show: 10% of sandstone had trace fluorescence that was medium bright, spotty to solid yellow. Fair cut was rapid, medium strength, rarely streaming milky blue and dried to bluish yellow halo.
- 2223' - 2244' Shale, grayish red; silty in part; firm non- to slightly effervescent; subplaty to subblocky. Siltstone, pale red to grayish red, minor pinkish gray; firm; slightly effervescent; micaceous in part; subblocky. No show.
- 2244' - 2270' Mostly Sandstone, unconsolidated in samples; very fine to very coarse grained; angular to subrounded; poorly sorted. Some Shale and Siltstone, as above.
- Show: 20% of sandstone had trace fluorescence that was medium bright spotty to solid yellow. Fair cut was rapid, medium strength, rarely streaming and dried to bluish yellow halo.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

SINBAD (OR TIMPOWEAP) TOP: 2270' DATUM: +6091'
LIMESTONE MEMBER OF MOENKOPI FORMATION

2270' - 2298' Limestone, pinkish gray; cryptocrystalline; firm, medium hard where light grayish brown; dense; no visible porosity. Trace Shale, medium gray; silty, micromicaceous in part; firm and hard; non-effervescent; platy and blocky.

Show: 20% of limestone had fair fluorescence that was bright solid yellow. Fair cut was slow, medium strength, slightly streaming--streaming cut came from small percentage that was microcrystalline.

2298' - 2328' Limestone, grayish orange pink; cryptocrystalline, some microcrystalline; medium hard; dense; poor to no visual porosity. Trace Shale, medium gray; as above.

Show: 60% of limestone had fair to good fluorescence that was bright solid yellow. Fair cut was slow, medium strength, slightly streaming in part.

2328' - 2363' Shale and Siltstone, grayish red. Sandstone, unconsolidated in samples; white to clear; very fine to very coarse grained; angular to subrounded; poorly sorted. Trace Shale, greenish gray; silty, micromicaceous; firm; platy.

Show: Trace show in sandstone.

KAIBAB LIMESTONE TOP: 2363' DATUM: +5998'

2363' - 2389' Limestone, pinkish gray; cryptocrystalline; hard; dense; no visual porosity. Dolomite, moderate orange pink; crypto- to some microcrystalline; medium hard; calcitic; dense to some earthy; no to poor visual porosity.

Show: 5% had trace fluorescence that was weak, spotty to solid yellow. Trace cut was rapid weak and non-streaming.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

2389' - 2449' Increased Dolomite, moderate orange pink, as above. Some Limestone, pinkish gray, as above. 20% Chert, white to light gray; hard; very slightly effervescent and microcrystalline in part; blocky.

Show: 10% of carbonate had trace fluorescence that was weak, spotty to solid yellow. Trace cut was rapid weak and non-streaming.

2449' - 2479' Dolomite, moderate orange pink; calcitic in part; as above. Minor Limestone, pinkish gray, as above. 40% Chert, white, some light gray; hard; very slightly effervescent and microcrystalline in part; blocky.

Show: 10% of carbonate had trace fluorescence that was weak, spotty to solid yellow. Trace cut was rapid weak and non-streaming.

2479' - 2509' Questionable interpretation. Sample contained 95% Sandstone, unconsolidated; overall pinkish gray cast, white and clear grains; fine to very coarse grained; varies from angular--freshly broken--to well rounded; medium sorted.

Show: 50% had fair fluorescence that was medium bright, mostly solid yellow. Fair to good cut was rapid, medium strength, slightly streaming in part.

2509' - 2539' Limestone, pinkish gray; cryptocrystalline, some microcrystalline; medium hard; clean; dense, no visual porosity. 30% Chert, white to pinkish gray; hard; very slightly effervescent; blocky; trace with small green nodules.

Show: 20% had fair fluorescence that was medium bright, spotty to solid yellow. Trace to fair cut was rapid, rather weak, non-streaming.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

2539' - 2582' Limestone, pinkish gray; cryptocrystalline; hard; dense; no visual porosity. Dolomite, moderate orange pink; cryptocrystalline; hard; calcitic in part; dense; no visual porosity.

Show: 10% had trace fluorescence that was medium bright, spotty to solid yellow. Trace to fair cut was rapid, rather weak, non-streaming.

WHITE RIM SANDSTONE - TOP: 2582' DATUM: +5779'
TOROWEAP FORMATION

Note: For the intervals 2599' - 2622' and 2648' - 2787' sample evidence cannot be reconciled with lithology suggested by the bulk density curve. Samples consisted of 80% to 100% unconsolidated quartz sand, for which the maximum expected bulk density is 2.65 gm/cc. Recorded bulk density for the intervals in question is roughly 2.8 gm/cc and suggests dolomite.

2582' - 2599' 100% Sandstone, unconsolidated in samples; white; fine to very coarse grained; subrounded to well rounded; medium sorted.

Show: Virtually no fluorescence. Fair cut was rapid, medium strength, lightly streaming. Virtually no limestone cavings.

2599' - 2637' No sample.

2637' - 2697' 80% Sandstone, unconsolidated in samples; white; fine to very coarse grained; subrounded to well rounded; medium sorted. 20% Limestone, pinkish gray and Dolomite, moderate orange pink; as above. Trace Dolomite, pinkish gray; microcrystalline; sandy; medium hard; poor visual porosity.

Show: 10% to 20% of carbonates had trace fluorescence that was dull to medium bright, spotty to solid yellow. Trace cut was non- to lightly streaming.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

- 2697' - 2727' 95% Sandstone, unconsolidated in samples; white to pinkish gray; fine to very coarse grained; rounded to well rounded; medium sorted. 5% Chert, white; hard; very slightly effervescent; blocky. Trace Dolomite, pinkish gray; microcrystalline; sandy; as above. Trace Shale, medium dark gray, grayish red.
- Show: Trace fluorescence. Trace cut.
- 2727' - 2757' 80% Sandstone, unconsolidated; as above. 10% Limestone and Dolomite, both pinkish gray. 10% Chert, white.
- Show: 20% of carbonates had fair fluorescence that was medium bright, spotty to solid yellow. Fair cut was lightly streaming.
- 2757' - 2787' 95% Sandstone, unconsolidated; white to pinkish gray; fine to medium grained; subangular to well rounded. 5% Limestone and Dolomite.
- Show: 20% of carbonates had fair fluorescence that was medium bright, spotty to solid yellow. Fair cut was lightly streaming.
- 2787' - 2948' No samples.
- 2948' - 2968' Dolomite, very pale orange; microcrystalline, microsucrosic; very soft; slightly argillaceous; subblocky; no visual porosity to poor pinpoint porosity.
- Show: No fluorescence. Trace cut was slow weak and virtually non-streaming milky blue and dried to a faint yellow halo.
- 2968' - 2988' Dolomite, as above but poor to fair pinpoint porosity.
- Show: No fluorescence. Trace cut was slow weak and virtually non-streaming milky blue and dried to a faint yellow halo.

Mid-Continent Oil Company
Charger #1

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

2988' - 3008' Dolomite, very pale orange; no visual porosity to poor pinpoint porosity.

Show: No fluorescence. Trace cut was slow weak and virtually non-streaming milky blue and dried to a faint yellow halo.

3008' - 3040' No samples.

3040' - 3140' Marlstone, pale yellowish brown to grayish orange; very soft; very dolomitic; subblocky to blocky; no visual porosity.

Show: No fluorescence. Trace to fair cuts were fairly rapid, medium strength, non-streaming and dried to weak bluish yellow halos.

Note: Samples from 3140' to 3443' TD were pulverized, very clayey, and of extremely poor quality. No interpretation was attempted. The following observations are not tied to the wireline logs.

ORGAN ROCK SHALE?

TOP: 3145'? DATUM: +5216'?

3140' - 3300' Grayish orange to pale yellowish brown; very clayey; moderately effervescent.

3300' - 3340' Light brown; very clayey; moderately effervescent.

3340' - 3380' Pale yellowish brown; very clayey; moderately effervescent.

3380' - 3343' TD Moderate yellowish brown; very clayey; parts were dark gray to black, greasy.

Show: No fluorescence. Fair oil cut was deep yellow.

Mid-Continent Oil Company
Charger #1

FLOW TESTS

#	Date	Depth	Test
1	9-20	1706'	1/2" Choke. Stabilized flowing pressure: 50 psi. Rate through choke: 313 MCF. Calculated open flow potential: 45 MMCF.
2	9-21	2298'	3/4" Choke. Stabilized flowing pressure: 40 psi. Rate through choke: 640 MCF. Calculated open flow potential: 41 MMCF.
3	9-21	2603'	3/4" Choke. Stabilized flowing pressure: 90 psi. Rate through choke: 1.3 MMCF. Calculated open flow potential: 91.6 MMCF.
4	9-22	2792'	3/4" Choke. Stabilized flowing pressure: 84 psi. Rate through choke: 1.2 MMCF. Calculated open flow potential: 76.8 MMCF.
5	9-25	3443' TD	Well cleaned up during hard flowing while logging. Final test. Calculated open flow potential: 111.2 MMCF.

Note: Calculated open flow potentials were based upon a 6" restriction within the well head.

Mid-Continent Oil Company
Charger #1

SERVICES

CONTRACTOR:	Calvert Western Rig #5 Toolpusher: Howard Leach Terry Leach	Moab, UT
AIR COMPRESSION:	Western Air Service Co. Engineer: Jim "Beaver" Keilman Todd Miskel Keith DeLong	Grand Junction, CO
DRILLING ENGINEERING:	William Crismon	Denver, CO
MUD LOGGING:	None	
AUTOMATED SAMPLING:	None	
WELLSITE GEOLOGY:	T. M. McCoy & Co., Inc. Geologist: Tim McCoy	Lafayette, CO
CORES:	None	
DRILL STEM TESTS:	No conventional DST--see "Flow Tests"	
LOGS:	Schlumberger Engineer: Chet Badowski	Farmington, NM

Mid-Continent Oil Company
Charger #1

DAILY OPERATIONS

The following summary of drilling operations was prepared from the rig tour sheets. Depths are at start of morning tour (12:01 a.m.). Hours are shown in parentheses.

Day	Date	Depth	Operation
	9-08	0'	Build location and move in some of rig.
	9-09	0'	Move in rig and rig up.
1	9-10	0'	Rig up. Spud 40' with air. Hole wouldn't stand up with air. Rig up pits for mud drilling.
2	9-11	40'	Drill 17 1/2" hole with mud to 130'. Run 3 joints 13 3/8" casing with two centralizers; set at 128' KB.
3	9-12	130'	Nipple up and wait on fuel.
4	9-13	130'	Rig up. Ready to drill. Wait for air compressors.
5	9-14	130'	Pick up drilling assembly. Drill 12 1/4" hole with air. Tag cement at 105'.
6	9-15	142'	Attempt to dry hole; stayed wet (1). Drill with air mist (3/4). Circulate and survey (1/2). Drill (2 1/2). Circulate and survey (1/4). Drill (2). Circulate and survey (1/4). Drill (5 3/4). Circulate and survey (1/2). Drill (5 1/4). Circulate for trip (1/4). Trip for bit #3 (3 1/2). Ream 45' (3/4). Drill (3/4).
7	9-16	851'	Drill (3/4). Circulate and survey (1/4). Drill (3). Circulate and survey (1/2). Drill (2 1/4). Circulate and survey (1/2). Drill (8 3/4). Circulate and survey (1/2). Drill (2 3/4). Fix fuel leak (1 1/4). Drill (3). Circulate and survey (1/2).

Mid-Continent Oil Company
Charger #1

DAILY OPERATIONS (cont'd)

8	9-17	1129'	Drill (2 3/4). Circulate and survey (1/2). Drill (3 1/2). Circulate and survey (1/2). Drill to 1365' (4 3/4). Circulate and load hole to run casing. Break circulation with aerated mud--wouldn't fill with mud (4). Trip out, strap pipe, no correction (3 1/2). Wait on casing crew (4 1/2).
9	9-18	1365'	Wait on casing crew and cementers. Casing crew's truck caught fire in Torrey (3). Rig up and run 9 5/8" casing (7). Tight at 1125'; work casing in hole (1). Circulate and work casing in hole (2). Cement; full returns throughout (1). Plug down at 2:00 p.m. Ran 34 joints 9 5/8" K-55 8 round ST&C with Larkin guide shoe and insert float. Bumped plug with 750#; float held. Wait on cement (10).
10	9-19	1365'	Wait on cement. Check blind ram 700# OK; check pipe rams 800# OK. (14). Trip in with bit #4 (2). Ream out float, cement, and shoe (2 1/2). Drill 7 7/8" hole (2 3/4). Survey (1/2). Drill (2 1/4).
11	9-20	1650'	Drill (1). Rotating head locked up; trip into intermediate casing (1 1/4). Wait on parts for rotating head (6 1/2). Trip to bottom (1). Drill (11 1/4). Survey (1/2). Drill (1 1/2). Trip into intermediate casing (1).
12	9-21	2298'	Flow test (1 1/4). Trip in hole (3/4). Drill (6). Repair blue line (2). Trip for bit #5; tight pipe (4 1/4). Repair blue line (3 3/4). Trip in (2 1/2). Drill (2). Survey (1/2). Drill (1).
13	9-22	2650'	Drill (9). Survey (1/2). Change rubber and patch blue line (1 1/2). Drill (6 1/2). Survey (1/2). Drill (1/2). Repair blue line (1). Drill (1). Repair body of rotating head (2 1/2). Drill (1/2). Trip to replace body of rotating head (1/2).

Mid-Continent Oil Company
Charger #1

DAILY OPERATIONS

- | | | | |
|----|------|----------|---|
| 14 | 9-23 | 3151' | Trip out of hole (2). Pull rotary table and rotating head (2). Wait on new body of rotating head (8). Nipple up rotating head (4). Trip in with bit #6 (2). Drill (5 3/4). *Hole was falling in at 3439'. Worked tight hole from 11:15 p.m. to 12:00 midnight (3/4). |
| 15 | 9-24 | 3439' | *Worked loose at 12:40 a.m. Drilled 4'. Got damp and dust quit at 3443'--TD at 12:45 a.m. (3/4). Trip into intermediate casing (1 3/4). Wait on loggers and let hole blow CO2 (4 1/2). Trip to bottom (1 1/2). Circulate for logs (1). Trip out (2). Wait on loggers (2 1/2). Log (10). |
| 16 | 9-25 | 3443' TD | Log (3). FDC-SNP tool stuck in lubricator (approx 5 hrs). Prepare to run production casing. |

*Annotations from geolograph charts.

Mid-Continent Oil Company
Charger #1

MUD & AIR RECORD

Spudded 40' with air. Drilled to 130' with aerated mud. Drilled with air (misted) to 1365'. Drilled with air (dusted) to 3443'.

Day	Date	Depth	CFM	(PSI)	Remarks
5	9-14	130'	----	---	Drill cement & dry hole.
6	9-15	130'	1800	240/250	Mist. 18 BWPH & 1-2 Gal Soap/hr.
7	9-16	851'	1800	260/275	Mist. 18 BWPH & 1-2 Gal Soap/hr.
8	9-17	1129'	1800	290	Mist. 18 BWPH & 1-2 Gal Soap/hr.
9	9-18	1365'	----	---	Run casing.
10	9-19	1365'	1800	150	Dust.
11	9-20	1650'	1800	185	Dust.
12	9-21	2299'	1800	185	Dust.
13	9-22	2659'	1800	185	Dust.
14	9-23	3151'	1820	200	Dust.
15	9-24	3439'	1820	200	Dust. Damp at 3443'--TD hole.

Hole was logged dry. Logging difficulties were due to very large volume of CO2 being flowed from well: 1) Temperature tool would not pass below opening to blue line until flow was reduced. 2) Rocks were blown into lubricator and under arm of FDC-SNP tool.

Mid-Continent Oil Company
Charger #1

BIT RECORD

Bit #	Size	Make	Type	Depth Out	Footage	Hours
1	17 1/2			137	137	
2	12 1/4	Hughes	OSC-1G	831	694	16.25
3	12 1/4	Smith	F3	1365	534	33.0
4	7 7/8	Smith	F2	2603	1238	27.25
5	7 7/8	Smith	F3	3151	548	20.5
6	7 7/8	Smith	F3	3443	292	5.75

Bit #	Ft/Hr	Weight	RPM	Pump Press.	T B G Remarks
1	---	-----	---	----	Rerun
2	43	-----	---	----	Rerun
3	16	-----	---	----	Rerun
4	45	7-5K	70	----	Rerun
5	27	20-15K	60-80	----	Rerun
6	51	10K	60	----	Rerun

Mid-Continent Oil Company
Charger #1

DEVIATIONS

Depth	Degree
137'	3/4
231'	3/4
323'	3/4
634'	1/2
851'	1 1/2
943'	Misrun
974'	2 1/4
1066'	2 1/4
1129'	2 1/4
1191'	1 3/4
1284'	1 3/4
1589'	2 1/4
1866'	2 1/4
2051'	2 1/2
2268'	2 3/4
2637'	3 ---
2853'	3 ---
3039'	3 ---

No other surveys were run.

Mid-Continent Oil Company
Charger #1

DRILLING CURVE

Depth

0

1000'

2000'

3000'

4000'

5000'

6000'

7000'

8000'

Days

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

L. L. RIDGWAY COMPANY, INC.

PRINTED IN U.S.A.



41-0801

10 DIVISIONS PER HALF INCH BOTH WAYS

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

MIT IN TRIPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER CO2 2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc. 3. ADDRESS OF OPERATOR 12700 Park Central #1404, Dallas, Texas 75251 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 720' FSL & 2410' FWL (SE SW)		5. LEASE DESIGNATION AND SERIAL NO. U-38347 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME Death Hollow Unit 8. FARM OR LEASE NAME Charger 9. WELL NO. #1 Charger 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA Sec.29 T32S, R3E 12. COUNTY OR PARISH Garfield 13. STATE Utah
14. PERMIT NO. 43-017-30120	15. ELEVATIONS (Show whether OF, RT, OR, etc.) 8353' GR	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

XX (Other) Perforate for Production

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Begin June 18 through June 20, 1986

1st Interval	- Shinarump	1370'-1505'	-	40 holes
2nd Interval	- Moenkopi	1630'-2265'	-	39 holes
3rd Interval	- Kaibab	2360'-2860'	-	30 holes
4th Interval	- Toroweap-			
	White Rim	2890'-3125'	-	30 holes
5th Interval	- Organ Rock	3255'-3260'	-	5 holes
6th Interval	- Cedar Mesa	3390'-3400'	-	10 holes

RECEIVED

JUN 17 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED John D. Slawter TITLE President

DATE June 10, 1986

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SMIT IN TRIPLICATE
 (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER CO2		5. LEASE DESIGNATION AND SERIAL NO. U-38347
2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 12700 Park Central #1404, Dallas, Texas 75251		7. UNIT AGREEMENT NAME Death Hollow Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 720' FSL & 2410' FWL (SE SW)		8. FARM OR LEASE NAME Charger
14. PERMIT NO. 43-017-30120		9. WELL NO. #1 Charger
15. ELEVATIONS (Show whether DF, ST, GR, etc.) 8353' GR		10. FIELD AND POOL, OR WILDCAT Wildcat
12. COUNTY OR PARISH Garfield		11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA Sec.29 T32S, R3E
13. STATE Utah		12. COUNTY OR PARISH Garfield

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

XX (Other) Perforate for Production

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) * Begin June 18 through June 20, 1986

1st Interval - Shinarump	1370'-1505'	-	40 holes
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3rd Interval - Kaibab	2360'-2860'	-	30 holes
4th Interval - Toroweap-			
White Rim	2890'-3125'	-	30 holes
5th Interval - Organ Rock	3255'-3260'	-	5 holes
6th Interval - Cedar Mesa	3390'-3400'	-	10 holes

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DIVISION OF
 OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED John D. Slawter TITLE President

DATE June 10, 1986

(This space for Federal or State office use)

APPROVED BY _____
 CONDITIONS OF APPROVAL IF ANY:

TITLE _____

DATE _____

MID-CONTINENT OIL

Executive Offices:

12700 Park Central Place, Suite 1404
Dallas, Texas 75251
214/233-3380 • 214/233-3381

RECEIVED
JUN 23 1986

June 19, 1986

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DIVISION OF
OIL, GAS & MINING

Ms. Pam Kenna
State of Utah
Division of Oil, Gas & Mining
3 Triad Center
Suite 350
Salt Lake City, Utah 84180-1203

Re: Confidentiality of Charger #1
Well, Garfield County, Utah

Dear Ms. Kenna:

As per our telephone conversation this date, please
let this letter serve as our written request to hold
all information on the above referenced well
confidential.

Thank you for your cooperation in this matter.

Sincerely,



S. B. Sparks
Corporate Secretary

SBS/mv

cc: Mr. John D. Slawter

CHARGER #1

Start Date: June 18th thru June 20th, 1986

Tops of Formations: Shinarump 1345'
Moenkopi 1588'
Timpoweap 2270'
Kaibab 2363'
Toroweap/
White Rim 2582'
Organ Rock 3145'
Cedar Mesa 3386'
TD 3436'

5½" Casing Size: .39 OD

1st Interval - Shinarump

1370'	-	1375'	5 holes	1 every foot
1400'	-	1405'	5 holes	" " "
1440'	-	1445'	5 holes	" " "
1445'	-	1460'	15 holes	" " "
1495'	-	1505'	10 holes	" " "
			<u>40 holes</u>	

2nd Interval - Moenkopi

1630'		1 hole		
1660'		1 hole		
1730'		1 hole		
1797'		1 hole		
1825'		1 hole		
1860'		1 hole		
1995'	-	2000'	5 holes	1 every foot
2115'	-	2120'	5 holes	" " "
2200'	-	2205'	5 holes	" " "
2225'	-	2228'	3 holes	" " "
2250'	-	2265'	15 holes	" " "
			<u>39 holes</u>	

3rd Interval - Kaibab

2360'	-	2365'	5 holes	1 every foot
2410'	-	2415'	5 holes	" " "
2495'	-	2500'	5 holes	" " "
2550'	-	2560'	10 holes	" " "
2855'	-	2860'	5 holes	" " "
			<u>30 holes</u>	

4th Interval - Toroweap/White Rim

2890'	-	2900'	10 holes	1 every foot
3025'	-	3030'	5 holes	" " "
3050'	-	3055'	5 holes	" " "
3070'	-	3075'	5 holes	" " "
3120'	-	3125'	5 holes	" " "
			<u>30 holes</u>	

5th Interval - Organ Rock

3255'	-	3260'	5 holes	1 every foot
-------	---	-------	---------	--------------

6th Interval - Cedar Mesa

In order to equalize prior to
producing interval penetration:

3 holes at top of casing
3 holes at bottom of casing

Total

160 holes

Mid-Continent Oil Co.

Charger #1	Charger #4
S29-T32S-R3E	S13-T33S-R2E
Garfield County, Utah	

Perforating Schedule

- 6-16-86 (Monday) Left Brighton @ 7:15 a.m. Arrived Escalante @ 9:15 p.m. Stopped in Grand Junction and picked up bolts, ring gaskets and gauges needed for wellhead on Charger #4. Purchased from Big Red Supply & Mining Inc. Contacted Tefteller Inc. to arrive on Thursday to test wells. Goodwell called @ 10:30 p.m. and had truck (water pump) in Thompson, Utah and got as far as Green River.
- 6-17-86 (Tuesday) Checked location to be sure we could get in! Met Goodwell in Boulder @ 12:45 p.m. Took to location #1. Rigged up! Removed one master gate and block flange to have enough room under boom truck for lubricator and guns, etc. Ran tie in log and collar locator. Total depth of 3377.5 plug back. Had to have swedge welded into bonnet to make lubricator work.
- 6-18-86 (Wednesday) Perforated all zones in Charger #1 w/160 total holes .39 OD. Shot @ bottom and let pressure equalize. Then worked under lubricator all day. Ran H2S dectector after perforating @ 3000' + or - and had 0% H2S @ surface.
- 6-19-86 (Thursday) Had Lyman haul X-mass tree to Charger #4 and remove orbit valve and flange. Installed X-mass tree on same. Check H2S @ surface on Charger #4, 40 ppm. Witness by BLM, Theron Mitchell. Went as far as we could go. Met tester @ Sand Creek @ 3:30 p.m. Took to Charger #1. Removed bonnet and installed 4 1/16" flange x 4" 8RD, swedge to 2". Rig up pressure recorder and certified orifice tester. Perforators started off location for Charger #4 and master cylinder went out on boom truck. Going for parts, etc. Did not get off of Charger #1 location.

Perforating Schedule
Charger #1 & #4
Page Two

6-20-86 (Friday)

Finished nipping up wellhead on Charger #4. Perforators went to Cedar City and picked up master cylinder. Replaced same. Moved to Charger #4 from Charger #1. Rigged up and logged same with gamma ray tie in and collar locator. Total depth of 3721' (our plug back by casing 3719').

6-21-86 (Saturday)

To Charger #4. Rig up lubricator and perforated from 2330' to total depth w/80 select fire .39 OD jets. Perforated 2330' to 2354' w/8 holes, one every 3'. Instant blow, 0# to 68# in 15 minutes. Continued perforating.

Increase in pressure @ 3303' to 71#
Increase in pressure @ 3340' to 79#
Increase in pressure @ 3370' to 87#
Increase in pressure @ 3516' to 88#
Increase in pressure @ 3572' to 89#
Increase in pressure @ 3686' to 99#

Buildup for 30 minutes. No increase in pressure. Ran 4 point prover test. Witnessed by BLM, Theron Mitchell.

Perforators off location by 1:30 p.m.
Completed testing @ 2:15 p.m.
To Escalante and signed all work tickets with Lyman Construction.

6-22-86 (Sunday)

Left Escalante @ 4:45 a.m. Stopped in Grand Junction @ Big Red Supply and returned some unused bolts, flange, seal rings and valve. Signed tickets.

Bill D. Enman

FIELD DATA SHEET

Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date: <u>6/20/86</u>	Lease No. or Serial No.
Company: <u>Mid-Continent Oil Co.</u>		Connection: <u>None</u>	Allottee
Field: <u>Wildcat</u>	Reservoir: <u>Shinarump, Moenkapi, Timpanog, White Rim, Organ Rock</u>	Location	Unit
Completion Date: <u>6/18/86</u>	Total Depth: <u>3443</u>	Plug Back TD: <u>3377.5</u>	Elevation: <u>8353.6L</u>
Csg. Size: <u>5 1/2</u> in.	Set At: <u>15.5d</u>	Perforations: From <u>1370</u> To <u>3370</u>	Well No. <u>1</u>
Tbg. Size: <u>None</u>	Set At	Perforations: From To	Sec. <u>29</u> Top-Rib <u>325</u> Rgs-Sur <u>3E</u>
Type Completion (Describe): <u>Comingled Gas (CO₂)</u>		Packer Set At: <u>None</u>	County or Parish: <u>Garfield</u>
Producing Thru: <u>Casing</u>	Reservoir Temp. F	Mean Annual Temp. F	State: <u>Ut.</u>
Producing Thru: <u>Casing</u>		% CO ₂	% N ₂
Producing Thru: <u>Casing</u>		% H ₂ S	Prover: <u>2"</u>
Producing Thru: <u>Casing</u>		Meter Run	Taps

DATE	ELAP. TIME	WELLHEAD WORKING PRESSURE			METER OR PROVER				REMARKS
		Tbg. Psig	Csg. Psig	Temp. F	Pressure Psig	Diff.	Temp. F	Orifice	
10:30			119					1.5"	Deadweight Shut-in Pressure
" "			"					"	Open to Flow - Rate #1
10:45	.25		100		100		56°	"	Final - Rate #1 3,883 MCF/D
11:00	.5		100		100				Shut-in
" "									
11:15	.25		118+						
11:30	.5		119						
" "								1.375"	Open to Flow - Rate #2
11:45	.25		105		105		58°	"	Final - Rate #2 3,265 MCF/D
12:00	.5		105		105		58°	"	Shut-in
" "									
12:15	.25		118+						
12:30	.5		119						
" "								1.350"	Open to Flow - Rate #3
12:45	.25		109		109		60°	"	Final - Rate #3 2,794 MCF/D
13:00	.5		109		109		60°	"	Shut-in
" "									
13:15	.25		118+						
13:30	.5		119						
" "								1.025"	Open to Flow - Rate #4
13:45	.25		112		112		60°	"	Final - Rate #4 2,228 MCF/D
14:00	.5		112		112		60°	"	Shut-in
" "									
14:15	.25		118+						
" "	.5		119						

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
MIDLAND, TEXAS

WELL : CHARGER NO. 1

PAGE 1 OF 6

FIELD : WILDCAT

FILE 4-17698-0FP

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

1986 DATE	STATUS OF WELL	TIME	ELAPSED TIME		WELLHEAD PRESSURE	
			HRS.	MIN.	TBG	CSG
6-20	Checked shut-in pressure with the deadweight tester	10:30				119
		10:30	0	00		
	Open to flow (1st rate)	10:45	0	15		100
		11:00	0	30		100
	Shut-in well	11:00	0	00		
		11:15	0	15		118
	Open to flow (2nd rate)	11:30	0	30		119
		11:30	0	00		
	Shut-in well	11:45	0	15		105
		12:00	0	30		105
	Open to flow (3rd rate)	12:00	0	00		
		12:15	0	15		118
	Shut-in well	12:30	0	30		119
		12:30	0	00		
	Open to flow (4th rate)	12:45	0	15		109
		13:00	0	30		109
	Shut-in well	13:00				
		13:15	0	15		118
	Open to flow (5th rate)	13:30	0	30		119
		13:30	0	00		
	Shut-in well	13:45	0	15		112
		14:00	0	30		112
	Open to flow (6th rate)	14:00	0	00		
		14:15	0	15		118
	Shut-in well	14:30	0	30		119

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

WELL: MID-CONTINENT OIL COMPANY - CHARGER NO. 1
FIELD: WILDCAT

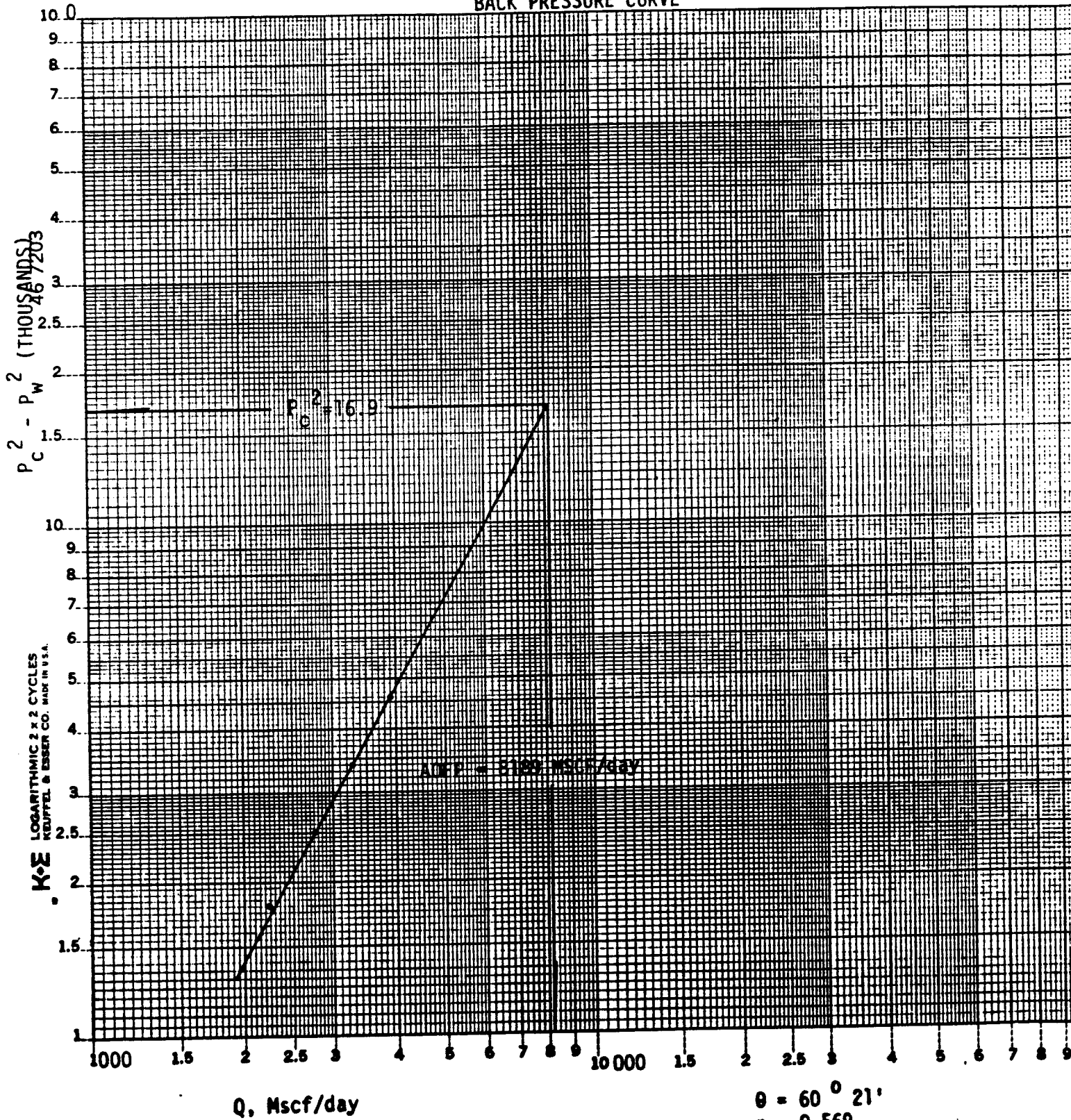
PAGE 2 OF 6
FILE 4-17698-OFP

GAS PRODUCTION DATA

	June 20, 1986			
Date of Test	1	2	3	4
Rate No.	1/2	1/2	1/2	1/2
Stabilization Period (Hours)	1/2	1/2	1/2	1/2
Flow Time Used for Calculations (Hours)	2	2	2	2
Size Line (Inch)	1 1/2	1 3/8	1 1/4	1 1/8
Size Orifice (Inch)	56	58	60	60
Flowing Temperature (°F)	1.5195	1.5195	1.5195	1.5195
Gas Gravity (CO ₂ assum.)	60	60	60	60
Temperature Base (°F)	15.025	15.025	15.025	15.025
Pressure Base (Psia)	1.000	1.000	1.000	1.000
Gravity Base	42.11	33.95	27.63	21.89
Coefficient (MCF/D)	111 (100)	116 (105)	120 (109)	123 (112)
Static Pressure (P _m) (+ 11 psia)	1.026	1.026	1.026	1.026
Supercompressibility Factor (F _{pv})	1.0039	1.0019	1.0000	1.0000
Flowing Temperature Factor (F _{tf})	0.8112	0.8112	0.8112	0.8112
Specific Gravity Factor (F _{tf})	1.0000	1.0000	1.0000	1.0000
Pressure Base Conversion Factor (F _{pb})	3905	3284	2760	2241
GAS VOLUME (MCF/D)	130	130	130	130
P _c	111	116	120	123
P _w	16.9	16.9	16.9	16.9
P _c ² (THOUSANDS)	12.3	13.5	14.4	15.1
P _w ² (THOUSANDS)	4.6	3.4	2.5	1.8
P _c ² - P _w ² (THOUSANDS)				

Company : Mid-Continent Oil Company
 Well : Charger No. 1
 Field : Wildcat
 County : Garfield
 State : Utah
 Test Date: June 20, 1986

BACK PRESSURE CURVE



$\theta = 60^\circ 21'$
 $n = 0.569$
 AOFP = 8189 Mscf/day

COMPANY: Mid-Continent Oil & Gas UT ACCOUNT # _____ SUSPENSE DATE: 6-27-84

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: Sandy

CONTACT TELEPHONE NO.: (214) 233-3380

SUBJECT: Request for letter on confidentiality be sent to keep
Charger #1 on list

(Use attachments if necessary)

RESULTS: _____

(Use attachments if necessary)

CONTACTED BY: Don Kenna

DATE: June 19, 1984

CONFIDENTIAL

SUBMIT IN DUPLICATE*

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

080607

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-38347

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Death Hollow Unit
FARM OR LEASE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RENVR. ☐ OTHER ☐

2. NAME OF OPERATOR

Mid-Continent Oil & Gas Reserves, Inc.

3. ADDRESS OF OPERATOR

12700 Park Central #1404, Dallas, TX 75242

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface SESW Sec. 29, T32S, R3E,...8353GL...8361 KB

At top prod. interval reported below
1365' - 1588'

At total depth

3350' - 3436'

14. PERMIT NO.

43-017-30120

DATE ISSUED

9/6/83

15. DATE SPUDDED

9/10/83

16. DATE T.D. REACHED

9/24/83

17. DATE COMPL. (Ready to prod.)

9/26/83 & 6/18/86

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

KB8361' GR8353'

19. ELEV. CASINGHEAD

8361.3'

20. TOTAL DEPTH, MD & TVD

TD 3443'

21. PLUG, BACK T.D., MD & TVD

3,377.5'

22. IF MULTIPLE COMPL., HOW MANY*

N/A

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

see attached

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

2 mud logs

27. WAS WELL CORED

CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

Intervals—see attached schedule

Size: .39

of holes: 160 plus six holes penetrated the casing, 3 at the top and 3 at the bottom in order to equalize prior to producing interval penetration.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
--		Thru Casing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
6-20-86	2	1.25-1.50'	→		3,883		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
	119	→	--		--	--	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY
BIM-
Theron Mitchell

35. LIST OF ATTACHMENTS Perforating Schedule, and Restricted (choke) Open Flow Potential

Measurements, Tabular and graphical from Tefteller, Inc.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE President

DATE 7-16-86

*(See Instructions and Spaces for Additional Data on Reverse Side)

3-30-87

Norm.

These wells produce from a combination of zones. They cannot be characterized as a single producing zone or even as a transition interval. There are 4 distinct geological units contributing to the production from these wells.

Shinarump Sandstone

Kaibab Limestone

Toroweap

Organ Rock Shale

It is a very complex situation. I suggest that we do not attempt to force fit a single producing interval to describe these wells.

We might list a combination of zones on the computer record.

Perhaps even investigate modifying data input to allow special cases like this.

- JRB

VICKY,

LET'S CREATE A NEW PZ CATEGORY FOR THE COMPUTER THAT SOMEHOW INCLUDES EACH OF THE ZONES IN QUESTION, SINCE THERE IS APPARENTLY A COMPLICATING SITUATION. IF PROD. COULD BE REPORTED SEPARATELY, THEN WE WOULD LIST EACH PZ SEPARATELY. JOHN WILL NEED TO BE INVOLVED TO APPROVE WHAT EVER NECESSARILY IS USED.

TRUX,

Myrm
3-30-87



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 1, 1987

TO: Memo to File
FROM: Vicky Carney *VC*
RE: Charger #1 API# 43 017 30120 SEC 29 T32S R03E

The above referenced well is multiply commingled into the Shinarump (SRMP), Moenkopi (MNKP), Kaibab (KBAB), Toroweap/White Rim (WHRM), Organ Rock (ORRK), and Cedar Mesa (CDMSA).

We are using the Moenkopi (MNKP) as the predominant Producing Zone per R J Firth and John Baza.

cc: Well Files
Reading File

0511S-24



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 5, 1987

Mr. John Slaughter
Post Office Box 810683
Farmer's Branch 75381
Dallas, Texas 75381

Dear Mr. Slaughter:

Re: Charger #1 API # 4301730120 SEC. 29, T. 32 S., R. 3 E.,
Garfield County, Utah

We are in receipt of the Well Completion Report dated July 16, 1986 and received on July 28, 1986 for the above referenced well. Since it is necessary to submit monthly production and disposition reports starting with the date of well completion, we request that the enclosed reporting forms for the months of June 1986 through the present be completed and returned to this office at your earliest convenience, but not later than November 7, 1987.

If the well has had no production or disposition, each report period may be combined on a single copy of the appropriate form, so long as the inclusive dates are listed on the form.

Future reports should be submitted each month on the forms which you will receive from this agency.

Please return the completed forms to Attention: Suspense File - Vicky Carney, and feel free to call if additional information is necessary.

Respectfully,

Norman C. Stout
Records Manager, Oil, & Gas

vlc
cc: Dianne R. Nielson
Ronald J. Firth
Suspense File
0511S-37



an equal opportunity employer

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. ● (801-538-5340)

Page 1 of 1

Operator name and address:

• MID-CONTINENT OIL & GAS
P O BOX 810683
DALLAS TX
ATTN: JOHN SLAWTER

75381

RECEIVED
JUN 12 1989

DIVISION OF OIL, GAS & MINING

Utah Account No. N7050

Report Period (Month/Year) 5 / 89

Amended Report ☐

Comments (attach separate sheet if necessary) wells are shut in, there is no production

I have reviewed this report, and certify the information to be accurate and complete.

Date June 8, 1989

Authorized signature Secy/Treas.

Telephone 214/239-4971

PLEASE COMPLETE FORMS IN BLACK INK



an equal opportunity employer

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. ● (801-538-5340)

Page 1 of 1

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• MID-CONTINENT OIL & GAS
P O BOX 810683
DALLAS TX
ATTN: JOHN SLAWTER

75381

RECEIVED
JUN 12 1989

JUN 12 1989

DIVISION OF OIL, GAS & MINING

Utah Account No. N7050

Report Period (Month/Year) 5 / 89

Amended Report ☐

Well Name			Producing Zone	Days Oper	Production Volume		
API Number	Entity	Location			Oil (BBL)	Gas (MSCF)	Water (BBL)
CHARGER #1							
4301730120	10776	32S 03E 29	MNKP	-0-	-0-	-0-	-0-
CHARGER #4							
4301730122	10777	33S 02E 13	KBAB	-0-	-0-	-0-	-0-
TOTAL				-0-	-0-	-0-	-0-

Comments (attach separate sheet if necessary) wells are shut in, there is no production

I have reviewed this report, and certify the information to be accurate and complete.

Date June 8, 1989

Authorized signature

Secy/Treas.

Telephone 214/239-4971

PLEASE COMPLETE FORMS IN BLACK INK

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION & SERIAL NO. U-38347	
1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 810683, Dallas, TX. 75388		8. FARM OR LEASE NAME Charger #1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface At proposed prod. zone		9. WELL NO. 1	
14. API NO. 4301730120		15. ELEVATIONS (Show whether DF, RT, GR, etc.)	
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data		10. FIELD AND POOL, OR WILDCAT Sunrise Field-Wildcat	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA T32S, R3E, Sec. 29	
12. COUNTY Garfield		13. STATE Utah	

RECEIVED

AUG 07 1989

DIVISION OF
OIL, GAS & MINING

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON ☐

CHANGE PLANS ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) change of Operator ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION Sept. 24, 1983

18. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

The Operator on the above well has been changed to:

H. B. BROWN OIL CO.
1710 So. Bay Front
Balboa Island, CA. 92662

Attn: Mr. Harry B. Brown, President

18. I hereby certify that the foregoing is true and correct

SIGNED for H. Brown

TITLE Secy/Treas

DATE 8/4/89

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.

U-38347

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Mid-Continent Oil & Gas Reserves, Inc.

8. FARM OR LEASE NAME

Charger #1

3. ADDRESS OF OPERATOR

P. O. Box 810683, Dallas, TX. 75381

9. WELL NO.

1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

See also space 17 below.)

At surface

At proposed prod. zone

10. FIELD AND POOL, OR WILDCAT

Sunrise Field-Wildcat

11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA

T32S, R3E, Sec. 29

DIVISION OF
OIL, GAS & MINING

AUG 07 1989

14. API NO.

4301730120

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY

Garfield

13. STATE

Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐

REPAIRING WELL

☐
☐
☐
☐

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) change of Operator

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

APPROX. DATE WORK WILL START

DATE OF COMPLETION Sept. 24, 1983

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

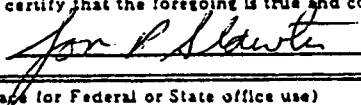
The Operator on the above well has been changed to:

H. B. BROWN OIL CO.
1710 So. Bay Front
Balboa Island, CA. 92662

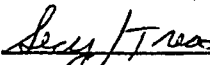
Attn: Mr. Harry B. Brown, President

18. I hereby certify that the foregoing is true and correct

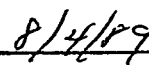
SIGNED



TITLE



DATE



(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (13-017-30122)
13-335-2E

Route original/copy to:

[] Well File Charger 1-13-017-30122 [] Suspense [] Other(Location) Sec 29-32 Twp 15-3E Rng
(API No.) (Return Date) 8-31-89
(To - Initials) TAS1. Date of Phone Call: 1:35 Time: 8-9-892. DOGM Employee (name) TAS (Initiated Call [])
Talked to:Name (Initiated Call []) - Phone No. ()of (Company/Organization) Mid-Continent3. Topic of Conversation: Crq of Opu.

4. Highlights of Conversation: Mid-Continent is no longer at
current phone number we have no forwarding
number - Called directory assistance no record of
H.B. Brown Oil Co. or Harry B. Brown in Ballon
Island CA. spoke with DVC. BLM on record
Mid-Continent is operator and have Person sending
in reports to BLM is Olin Jany 303-234-0141
8-9-89 left message on answering machine at 0:30
014-239-4971 9-00-89 1:03 no answer 714-673-2051
9-01-89 3:18 AM busy signal - 9-01-89 spoke w/
Mr. Brown he indicates he owns the well but
we have to contact his attorney.

PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (13-017-30122)
13-335-2E

Route original/copy to:

☐ Well File Chavali 1-43-017-30122☐ Suspense☐ Other(Return Date) 8-31-89(Location) Sec 29-32 Twp 15-3E Rng (To - Initials) TAS(API No.) 1. Date of Phone Call: 1:35 Time: 8-9-892. DOGM Employee (name) TAS (Initiated Call ☒)
Talked to:Name (Initiated Call ☐) - Phone No. ()of (Company/Organization) Mid-Continent3. Topic of Conversation: Chg of Opn.

4. Highlights of Conversation: Mid-Continent is no longer at
current phone number etc. have no forwarding
number - Called directory assistance no record of
H.B. Brown Oil Co. or Harry B. Brown in Ballou
Island CA. spoke with IVC BLM on record
Mid-Continent is operator and have Person sending
in reports to BLM is Olin Jany 303-034-0141
8-9-89. Left message on answering machine at 0:30
014-039-4471 9-00-89 1:03 no answer 714-573-2051
9-01-89 8:18 AM busy signal - 9-01-89 spoke w/
Mr. Brown he indicates he owns the well but
we have to contact his attorney.

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (43-017-30122)
13-335-2E

Route original/copy to:

☐ Well File Charger 1 (43-017-30120)

☐ Suspense
(Return Date) _____
(To - Initials) _____

☐ Other

(Location) Sec _____ Twp _____ Rng _____
(API No.) _____

1. Date of Phone Call: 9-1-89 Time: 12:30

2. DOGM Employee (name) Vicky (Initiated Call ☒
Talked to: 214-239-4971
Name John Shawter (Initiated Call ☐ - Phone No. WRONG # 214-233-3380
of (Company/Organization) MID-CONTINENT N7050

3. Topic of Conversation: JUNE REPORT DUE Sunday PO 810683
JULY DUE SEPT 16 DALLAS
75381

4. Highlights of Conversation: THE COMPANY THAT ANSWERED SAID
THEY GET MORE CALLS FROM FOR JOHN SHAWTER
THAN FOR THEIR OWN EMPLOYEES. BUT HE DOES
NOT WORK AT THIS #. 014-233-3380.
ASKED TAMU TO REMOVE \nearrow & REPLACE WITH 214-239-4971
12:35 Busy

9/14/89 11:10 left msg with ans service
to call me

H.B. Brown Oil Co. (NEW OPERATOR)
-1710 So Bay Front
BALBOA Island CA

92662 714-673-4256

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (43-017-30122)
13-335-2E

Route original/copy to:

☒ Well File Charger 1 (43-017-30120)
29-325-3E
(Location) Sec Twp Rng
(API No.)

☐ Suspense
(Return Date)
(To - Initials)

☐ Other

1. Date of Phone Call: 9-1-89 Time: 12:30

2. DOGM Employee (name) Vicky (Initiated Call ☒
Talked to: 214-239-4971
Name John Shawter (Initiated Call ☐ - Phone No. WRONG #
of (Company/Organization) MID-CONTINENT W7050

3. Topic of Conversation: JUNE REPORT DUE Sunday
JULY DUE SEPT 16 PO 810683
DALLAS
75381

4. Highlights of Conversation: THE COMPANY THAT ANSWERED SAID
THEY GET MORE CALLS FROM FOR JOHN SHAWTER
THAN FOR THEIR OWN EMPLOYEES. BUT HE DOES
NOT WORK AT THIS #. 214-233-3380.
ASKED TAMI TO REMOVE & REPLACE WITH 214-239-4971
12:35 Busy

9/14/89 11:10 left msg with ans service
to call me

H.B. Brown Oil Co. (NEW OPERATOR)
-1710 So Bay Front
BALBOA Island CA
92662 714-673-4256

PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (43-017-30122)
13-335-2E

Route original/copy to:

☒ Well File Charger 1 (43-017-30120)
29-325-3E
(Location) Sec ___ Twp ___ Rng ___
(API No.) _____☐ Suspense
(Return Date) _____
(To - Initials) _____☐ Other

_____1. Date of Phone Call: 9-21-87 Time: _____2. DOGM Employee (name) Lami Vining (Initiated Call ☒)
Talked to: _____Name Mr. Brown (Initiated Call ☐) - Phone No. (714) 673-4256
of (Company/Organization) H. B. Brown3. Topic of Conversation: Crng of Opu.4. Highlights of Conversation: Spoke w/ Mr. Brown he indicated
he needed me to go through his Attorney
Oliver Gushue for further info on this will.

SLC @ 531-8446

PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (43-017-30122)
13-335-2E

Route original/copy to:

☒ Well File Charger 1 (43-017-30122)☐ Suspense
(Return Date) _____
(To - Initials) _____☐ Other

_____(Location) Sec _____ Twp _____ Rng _____
(API No.) _____1. Date of Phone Call: 9-21-89 Time: _____2. DOGM Employee (name) Lam Leung (Initiated Call ☒)
Talked to:Name Orville Yushie (Initiated Call ☐) - Phone No. (801) 531-8446of (Company/Organization) H. B. Brown3. Topic of Conversation: Chg of Opn.4. Highlights of Conversation: Mr Yushie indicated as of this time they do not own nor are they ~~not~~ responsible for this well. They are in legal difficulties with mid-con. until these legal difficulties are cleared up Mr Yushie will not accept responsibility for this well. Mr Yushie would however like the Division to send all appropriate forms for his files.

PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (43-017-30122)
13-335-2E

Route original/copy to:

☒ Well File Charger 1 (43-017-30120) ☐ Suspense☐ Other(Location) Sec 29-325-3E Twp 13-335-2E Rng 1
(API No.) 13-335-2E(Return Date) _____
(To - Initials) _____1. Date of Phone Call: 9-21-89 Time: _____2. DOGM Employee (name) Larry Leung (Initiated Call ☒)
Talked to:Name Oliver Yushu (Initiated Call ☐) - Phone No. (801) 531-8446of (Company/Organization) H. B. Brown3. Topic of Conversation: Chg of Opn4. Highlights of Conversation: Mr Yushu indicated as of this time they do not own nor are they ~~not~~ responsible for this well. They are in legal difficulties with mid-con. until these legal difficulties are cleared up Mr Yushu will not absorb responsibility for this well. Mr Yushu would however like the Division to send all appropriate forms for his files.



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

September 28, 1989

H.B. Brown Oil Company
c/o Mr. Oliver Gushee
1850 Beneficial Life Tower
Salt Lake City, Utah 84111

Dear Mr. Gushee:

Re: Change of Operator and Reporting Requirements
Charger #1 Well (API 43-017-30120) and Charger #4 Well (API 43-017-30122)

In response to your conversation with Tami Searing of this office on September 22, 1989, enclosed are copies of the Utah Oil and Gas Conservation General Rules and report forms, and the August 4, 1989 sundry notices from Mid-Continent Oil and Gas Reserves, Inc. informing the division that H.B. Brown Oil Company is the new operator of the above referenced wells.

It is our understanding that legal problems are currently preventing H.B. Brown Oil Company from taking over as well operator and that Mid-Continent remains the bonded operator. Mid-Continent is being advised by this office that the division records will continue to show Mid-Continent as operator at this time.

At such time when all problems have been resolved and Brown Oil takes over as operator, please advise us of the change of operator by submitting Form 9, Sundry Notices and Reports on Wells, and of your position as designated agent for Brown Oil by submitting Form 5, Designation of Agent or Operator.

If we can be of further assistance, please feel free to call.

Sincerely,

Don Staley
Administrative Supervisor

ldc
Enclosures
cc: D.R. Nielson
R.J. Firth
V.L. Carney
WE11/30-31

T.A. Searing
BLM - Cedar City
Well Files



State of Utah

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
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If we can be of further assistance, please feel free to call.

Sincerely,

Don Staley
Administrative Supervisor

ldc

Enclosures

cc: D.R. Nielson
R.J. Firth
V.L. Carney

WE11/30-31

T.A. Searing
BLM - Cedar City
Well Files



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

suspense
10-28-89

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

September 28, 1989

Mr. John Slawter
Mid-Continent Oil and Gas Reserves, Inc.
P.O. Box 810683
Dallas, Texas 75381

Dear Mr. Slawter:

Re: Change of Operator and Reporting - Charger #1 Well (API 43-017-30120) and Charger #4 Well (API 43-017-30122)

The Division of Oil, Gas and Mining has been advised by Mr. Oliver Gushee, attorney for H.B. Brown Oil Company, that the change of operator of the above referenced wells from Mid-Continent Oil and Gas Reserves, Inc. to H.B. Brown Oil Company has not yet been finalized. Until such time that all problems are resolved and Brown Oil becomes accountable for these wells, it will continue to be the responsibility of Mid-Continent, as the bonded operator, to submit all required reports to the division. Currently, the Monthly Oil and Gas Production Reports and the Monthly Oil and Gas Disposition Reports for June and July 1989 are past due.

Your prompt response to this matter is appreciated.

Sincerely,

Don Staley
Administrative Supervisor

ldc

Enclosures

cc: D.R. Nielson
R.J. Firth
V.L. Carney
T.A. Searing
BLM - Cedar City
Well Files

WE11/32

Prod. File - mid Continent



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

① Rwm ✓
② well file.

September 28, 1989

Mr. John Slawter
Mid-Continent Oil and Gas Reserves, Inc.
P.O. Box 810683
Dallas, Texas 75381

Dear Mr. Slawter:

Re: Change of Operator and Reporting - Charger #1 Well (API 43-017-30120) and Charger #4 Well (API 43-017-30122)

The Division of Oil, Gas and Mining has been advised by Mr. Oliver Gushee, attorney for H.B. Brown Oil Company, that the change of operator of the above referenced wells from Mid-Continent Oil and Gas Reserves, Inc. to H.B. Brown Oil Company has not yet been finalized. Until such time that all problems are resolved and Brown Oil becomes accountable for these wells, it will continue to be the responsibility of Mid-Continent, as the bonded operator, to submit all required reports to the division. Currently, the Monthly Oil and Gas Production Reports and the Monthly Oil and Gas Disposition Reports for June and July 1989 are past due.

Your prompt response to this matter is appreciated.

Sincerely,

Don Staley
Administrative Supervisor

Idc

Enclosures

cc: D.R. Nielson
R.J. Firth
V.L. Carney
T.A. Searing
BLM - Cedar City

Well Files

WE11/32

MID-CONTINENT OIL

Executive Offices
12700 Park Central Place, Suite 1404
Dallas, Texas 75251
214/233-3380 • 214/233-3381

RECEIVED
OCT 25 1989
DIVISION OF
OIL, GAS & MINING

May 25, 1989

Brown Oil Company
1715 So. Bay Front
Balboa Island, CA. 92662

Attn: Mr. Harry B. Brown, President

RE: Resignation As Designated Operator

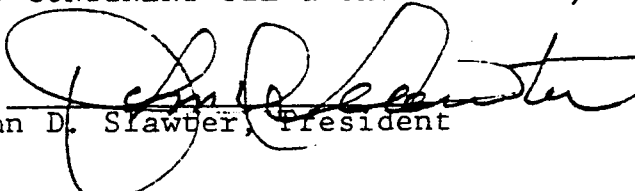
Dear Mr. Brown:

As per this date, Mid-Continent Oil & Gas Reserves, Inc., hereby resigns as the Designated Operator of the Escalante Anticline Field located in Garfield County, Utah. This involves Federal leases U38347 (Charger #1), U29834, U57341 (Charger #2) and U33919, U53744 (Charger #4). It is specifically pointed out that the Death Hollow Unit was terminated in 1986.


You are further instructed that Pacific International Production Co., of which Mid-Continent Oil is a subsidiary, approves this action as of the 25th day of May, 1989.

Very truly yours,

MID-CONTINENT OIL & GAS RESERVES, INC.

By: 
John D. Slawter, President

PACIFIC INTERNATIONAL PRODUCTION CO.

by: 
John D. Slawter, President

MID-CONTINENT OIL (N 7050)

Executive Offices:

12700 Park Central Place, Suite 1404

Dallas, Texas 75251

214/233-3380 • 214/233-3381

P.O. Box 810683, Dallas, TX. 75381

RECEIVED
OCT 25 1989

DIVISION OF
OIL, GAS & MINING

October 21, 1989

CERTIFIED MAIL #P953 620 016

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT. 84180-1203

*Both wells shut in.
Prod. Reports rec'd
through Sept 89.*

Attn: Mr. Don Staley, Administrative Supervisor

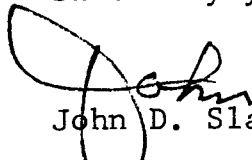
RE: Change of Operator and Reporting - Charger #1 Well
(API 43-017-30120) and Charger #4 Well (API 43-017-30122)

Dear Don:

In reference to your letter of September 28th pertinent to the above captioned, Harry Brown was notified on May 25th, 1989 that Mid-Continent Oil & Gas Reserves, Inc., with the approval of Pacific International Production Co., resigned as the designated Operator as per the Death Hollow Unit designation in 1983. It was specifically pointed out that the Death Hollow Unit was terminated by the BLM in 1986. In addition thereto, Mid-Continent Oil & Gas Reserves, Inc., lost all of its right, title and interest to said wells and subject leases, through a judicial sale in favor of Brown Oil Company on May 22nd, 1989. A copy of a letter dated May 25th addressed to Harry Brown, President of H.B. Brown Oil Company is enclosed herewith.

As per instructions of your September 28th letter and as a courtesy to you and the Department of Natural Resources, Division of Oil, Gas and Mining, the production reports were made current on October 17th.

Sincerely yours,



John D. Slawter

JDS:mj

Enclosure as stated

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File Charge #1-4

☐ Suspense
(Return Date) _____
(To - Initials) _____

☐ Other

(Location) Sec _____ Twp _____ Rng _____

(API No.) _____

1. Date of Phone Call: 11-7-89 Time: 12:39

2. DOGM Employee (name) Lami Leasing (Initiated Call ☐)
Talked to:

Name Greg Christensen (Initiated Call ☐) - Phone No. (800) 4091
of (Company/Organization) B.M. Escalante

3. Topic of Conversation: Open of record

4. Highlights of Conversation: Currently no-one is lease open
of these wells. They request that we forward
a copy of the Oct 21st letter sent to DTS

11-8-89 Lusia Thompson - Mid Continent is still
responsible for these wells H.B. Brown is
in the process of acquiring a bond.

1-10-90 H.B. Brown did purchase wells per
Lusia Thompson but are not as of yet bonded
H.B. Brown applied for a lease bond which
will not include these wells.

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ **Well File** _____

☐ **Suspense**
(Return Date) _____
(To - Initials) _____

☐ **Other** _____

(Location) Sec _____ Twp _____ Rng _____

(API No.) _____

1. Date of Phone Call: 6-22-90 Time: 9:45

2. DOGM Employee (name) J. Romero (Initiated Call ☒)
Talked to:

Name Oliver Gushue (Initiated Call ☐) - Phone No. (801) 531-8446
of (Company/Organization) Atty. H.B. Brown Oil Co.

3. Topic of Conversation: Legal documentation from H.B. Brown Oil Co.
of operator change. (6-21-90 Btm/Theresa H.B. Brown Oil Co. Bonded off. 2-9-90)
they are now operator of wells.

4. Highlights of Conversation: He referred me to Mr. Orlyn Terry
3000 Youngfield, Suite 338, Lakewood, CO 80215 (303) 234-0141.

* Mr. Orlyn Terry will send documentation of operator changes. He
mentioned that the Charges 1, Charges 2 and Charges 4 were involved,
and are now operated by H.B. Brown Oil Co.

* Received documentation 7-9-90. Operator Name should be:

Brown Brothers Land Company

50 West Liberty Street

Reno, NV 89501

(303) 234-0141 Orlyn Terry

* 7-13-90 Confirmed operator name with Btm/Theresa - ok!



ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES
3000 YOUNGFIELD, SUITE 338, LAKEWOOD, COLORADO 80215 (303) 234-0141

RECEIVED
JUL 09 1990

DIVISION OF
OIL, GAS & MINING

June 25, 1990

Lisha Romero
Division of Oil, Gas and Mining
#3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Dear Lisha,

As the authorized representative for Brown Brothers Land Company, please be advised that Brown Brothers Land Company has replaced Mid Continental Oil and Gas as operator on the following wells:

- # 1 Charger se sw sec 29 T32S-R3E 43-017-30120
(Lease V38347)
- # 2 Charger nw sw sec 33 T32S-R3E 43-017-30121
(Lease V-65619)
- # 4 Charger ne se sec 13 T33S-R2E 43-017-30122
(Lease V-53744)

Correspondence related to these wells should be sent to the address below:

Brown Brothers Land Company
50 West Liberty Street
Reno, NV 89501

Very truly yours,

Orlyn Terry

cc Harry Brown

OT/jac

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: _____

2. Name of Operator:

Brown Brothers Land Co.

3. Address and Telephone Number:

P.O. Box 753, Salt Lake City, UT 84110 801 295-2871

4. Location of Well T. 32 S., R. 3 E. Sec. 29

Footages:

QQ, Sec., T., R., M.:

5. Lease Designation and Serial Number:

U-38347

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Charger #1

9. API Well Number:

4301730120

10. Field and Pool, or Wildcat:

County: Garfield

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well has been shut in for the past 3 years.

RECEIVED

DEC 11 1992

DIVISION OF
OIL GAS & MINING

13.

Name & Signature: _____

Title: Agent

Date: 12-11-92

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0034
Expires: July 31, 1995

**ASSIGNMENT OF RECORD TITLE INTEREST IN A
LEASE FOR OIL AND GAS OR GEOTHERMAL RESOURCES**

Mineral Leasing Act of 1920 (30 U.S.C. 181 et seq.)
Act for Acquired Lands of 1947 (30 U.S.C. 351-359)
Geothermal Steam Act of 1970 (30 U.S.C. 1001-1025)
Department of the Interior Appropriations Act, Fiscal Year 1981 (42 U.S.C. 6508)

Lease Serial No.

UTU-38347

Lease Effective Date
(Anniversary Date)

12/1/77

New Serial No.

Type or print plainly in ink and sign in ink.

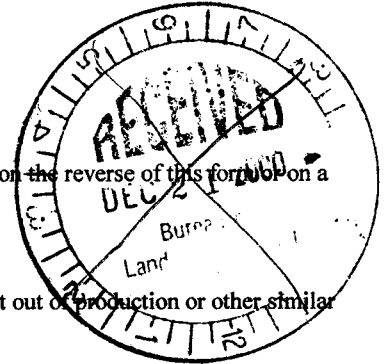
PART A: ASSIGNMENT

1. Assignee* Richardson Production Company
Street 1700 Lincoln Street, Suite 1700
City, State, ZIP Code Denver, CO 80203

*If more than one assignee, check here ☐ and list the name(s) and address(es) of all additional assignees on the reverse of this form on a separate attached sheet of paper.

This record title assignment is for: (Check one) ☒ Oil and Gas Lease, or ☐ Geothermal Lease

Interest conveyed: (Check one or both, as appropriate) ☒ Record Title, ☐ Overriding Royalty, payment out of production or other similar interests or payments



2. This assignment conveys the following interest:

Land Description Additional space on reverse, if needed. Do not submit documents or agreements other than this form; such documents or agreements shall only be referenced herein.	Percent of Interest			Percent of Overriding Royalty or Similar Interests	
	Owned	Conveyed	Retained	Reserved	Previously reserved or conveyed
a	b	c	d	e	f
Township 32 South, Range 3 East SLM Section 29: All Containing 640.00 acres, more or less Garfield County, UT	50%	50%	0%	-0-	-0-

RECEIVED
FEB 2 2001
Bureau of
Land Management

FOR BLM USE ONLY-DO NOT WRITE BELOW THIS LINE

UNITED STATES OF AMERICA

This assignment is approved solely for administrative purposes. Approval does not warrant that either party to this assignment holds legal or equitable title to this lease.

☒ Assignment approved for above described lands;

☐ Assignment approved for attached land description

Assignment approved effective

MAR 1 2001

☐ Assignment approved for land description indicated on reverse of this form.

By

(Authorized Officer)

Chief, Branch of
Mineral Adjudication

(Title)

FEB 5 2001

(Date)

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

The foregoing instrument was acknowledged before me this 1st day of November, 2000, by PATRICIA BROWN, as PRESIDENT for Brown Brothers Land Company, a Nevada corporation, on behalf of said corporation.
Witness my hand and official seal.

My Commission Expires:
10/20/03



Betty Louise Koontz
Notary Public

PART B: CERTIFICATION AND REQUEST FOR APPROVAL

1. The Assignor certifies as owner of an interest in the above designated lease that he/she hereby assigns to the above assignee(s) the rights specified above.
2. Assignee certifies as follows: (a) Assignee is a citizen of the United States; an association of such citizens; a municipality; or a corporation organized under the laws of the United States or of any State or territory thereof. For the assignment of NPR-A leases, assignee is a citizen, national, or resident alien of the United States or association of such citizens, nationals, resident aliens or private, public or municipal corporation, (b) Assignee is not considered a minor under the laws of the State in which the lands covered by this assignment are located; (c) Assignee's chargeable interest, direct and indirect, in each public domain and acquired lands separately in the same State, do not exceed 246,080 acres in oil and gas leases (of which up to 200,000 acres may be in oil and gas options), or 300,000 acres in leases in each leasing District in Alaska of which up to 200,000 acres may be in options, if this is an oil and gas lease issued in accordance with the Mineral Leasing Act of 1920, or 51,200 acres in any one State if this is a geothermal lease; (d) All parties holding an interest in the assignment are otherwise in compliance with the regulations (43 CFR Group 3100 or 3200) and the authorizing Acts; (e) Assignee is in compliance with reclamation requirements for all Federal oil and gas lease holdings as required by sec. 17(g) of the Mineral Leasing Act; and (f) Assignee is not in violation of sec. 41 of the Mineral Leasing Act.
3. Assignee's signature to this assignment constitutes acceptance of all applicable terms, conditions, stipulations and restrictions pertaining to the lease described herein.

For geothermal assignments, an overriding royalty may not be less than one-fourth (1/4) of one percent of the value of output, nor greater than 50 percent of the rate of royalty due to the United States when this assignment is added to all previously created overriding royalties (43 CFR 3241).

I certify that the statements made herein by me are true, complete, and correct to the best of my knowledge and belief and are made in good faith.

Executed this 1st day of November, 2000 Executed this 6th day of October, 2000

Name of Assignor as shown on current lease Brown Brothers Land Company

Assignor Patricia Brown Please type or print

Assignor PATRICIA BROWN (Signature)

Assignor PRESIDENT (Signature)

NO495
Richardson Production Company

Assignee
or

Attorney-in-Fact

(Signature)

Cathleen Colby
(Signature)

~~19 Cypress Tree Lane~~ 1221 W. Coast Hwy., Apt. 110
(Assignor's Address)

Newport Beach CA 92663
(City) (State) (Zip Code)

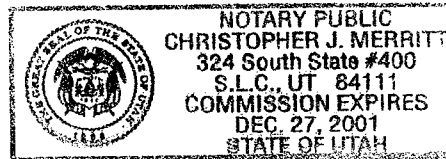
Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 1849 C Street, N.W. Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0034), Washington, D.C. 20503.

Title 18 U.S.C. Sec. 1001 makes it a crime for any person knowingly and willfully to make to any Department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

On this day of FEB 5 2001, before me appeared Robert Lopez, to me personally known, who being by me duly sworn did say that he is the Chief, Branch of Minerals Adjudication, Bureau of Land Management, Utah State Office, and that the original of the foregoing instrument was signed on behalf of said Bureau, and that he acknowledged said instrument to be the free and voluntary act of said Bureau.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the month, day and year first above written.



Christopher J. Merritt
Notary Public

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <u>Shut-In</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-38347
2. NAME OF OPERATOR: Richardson Operating Company <u>N2400</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 5600 S Quebec, #130-B CITY <u>Greenwood Village</u> STATE <u>CO</u> ZIP <u>80111</u>		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 720' FSL and 2410' FWL		8. WELL NAME and NUMBER: Charger #1
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 29 32S 3E S		9. API NUMBER: 4301730120
COUNTY: Garfield		10. FIELD AND POOL, OR WILDCAT: Wildcat
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator change from Brown Brothers Land Company to Richardson Operating Company. Sundry inadvertently not filed when title was transferred. Transfer documentation attached per conversation with Earlene on 6/27/05.

State of Utah Surety Bond RLB0008218

*see attached BLM form for
Brown Brothers Land Co N0495
offer to transfer
Effective 11/01/2000*

APPROVED 8/24/05
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

NAME (PLEASE PRINT) <u>Patti L Davis</u>	TITLE <u>Vice President</u>
SIGNATURE <u><i>Patti L Davis</i></u>	DATE <u>6/28/2005</u>

(This space for State use only)

RECEIVED
JUN 30 2005
DIV. OF OIL, GAS & MINING

1. DJJ

2. CDW

3. FILE

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

11/1/2000

FROM: (Old Operator):

N0495-Brown Brothers Land Company

1221 W Coast Hwy, Apt 110

Newport Beach, CA 92663

Phone: 1-(949) 645-9974

TO: (New Operator):

N2400-Richardson Operating Company

5600 S Quebec, #130 B

Greenwood Village, CO 80111

Phone: 1-(303) 830-8000**CA No.****Unit:**

WELL(S)

[illegible]

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/30/2005
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/30/2005
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 7/29/2005
4. Is the new operator registered in the State of Utah: NO Business Number: 1186557-0143
5. If **NO**, the operator was contacted on: 8/24/2005
- 6a. (R649-9-2)Waste Management Plan has been received on: _____ requested 8-24-05
- 6b. Inspections of LA PA state/fee well sites complete on: _____ n/a

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 2/5/2001 BIA n/a

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 8/24/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 8/24/2005
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: RLB0002500

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: n/a

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: _____

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS: